

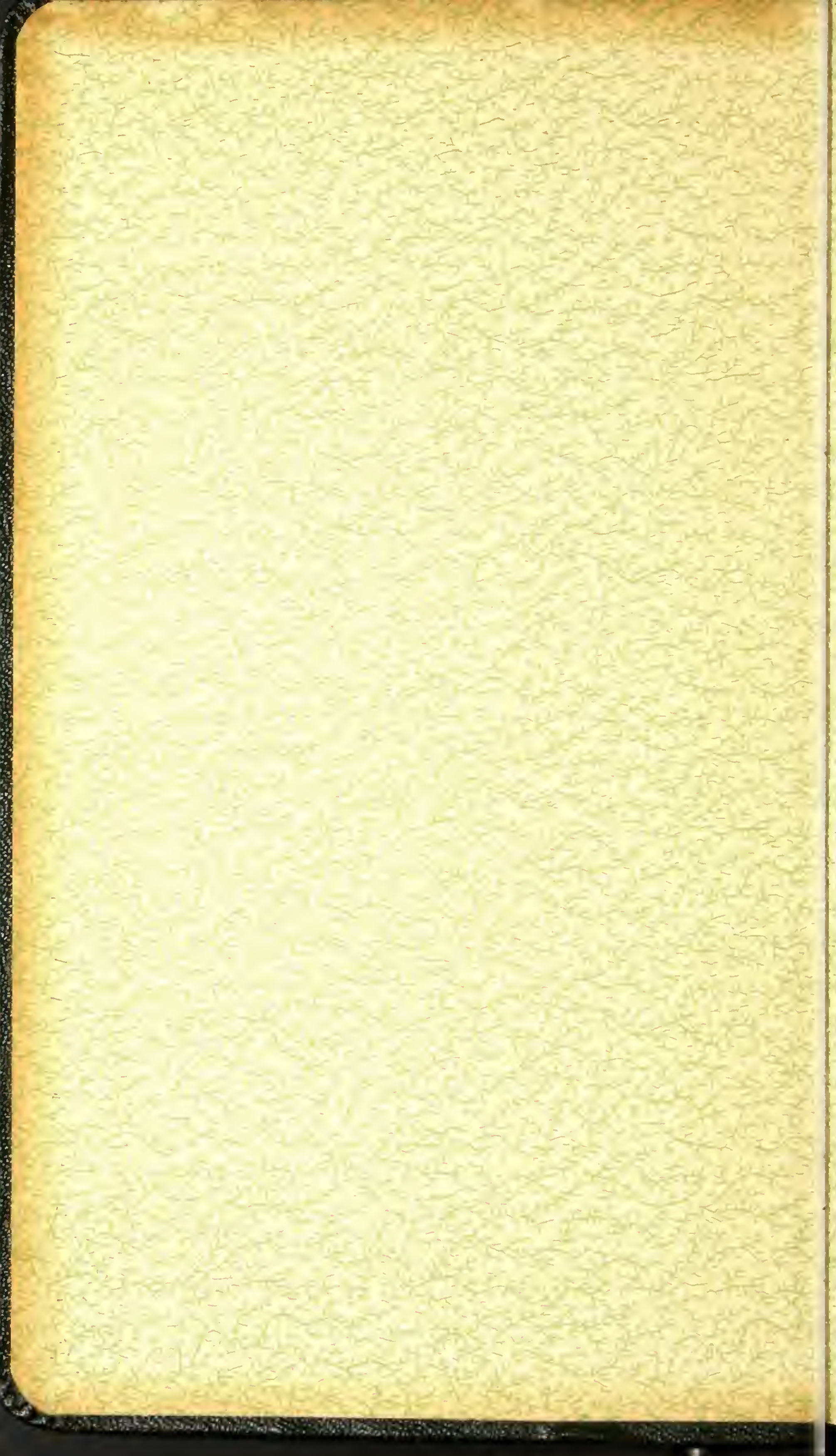
CANADIAN

IDEAL

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CANADIAN IDEAL FITTER

DOMINION RADIATOR AND BOILER COMPANY, LTD.

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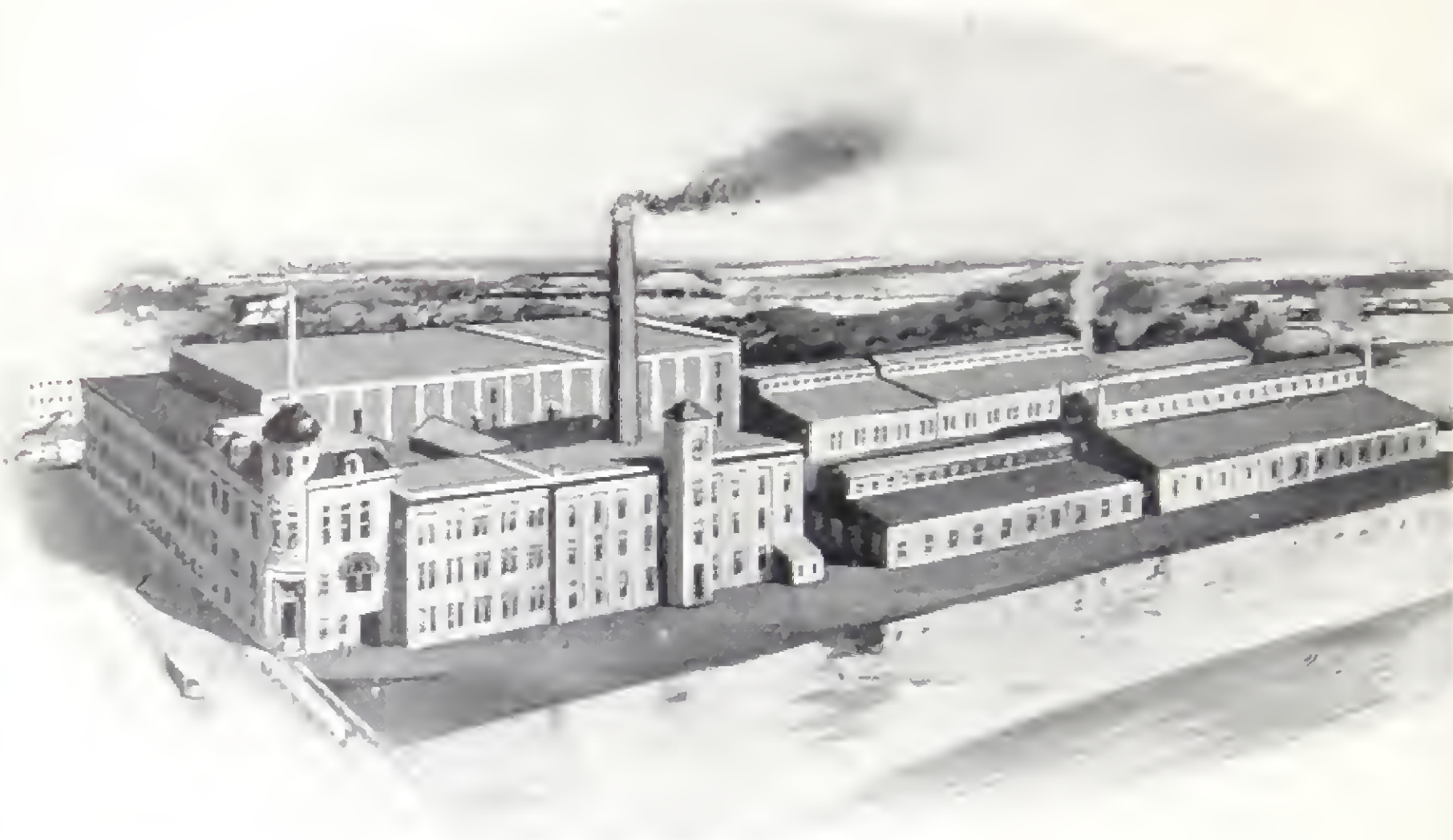
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Affiliated with
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Ideal House,
Great Marlborough St.,

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DOMINION RADIATOR AND BOILER COMPANY, LTD.

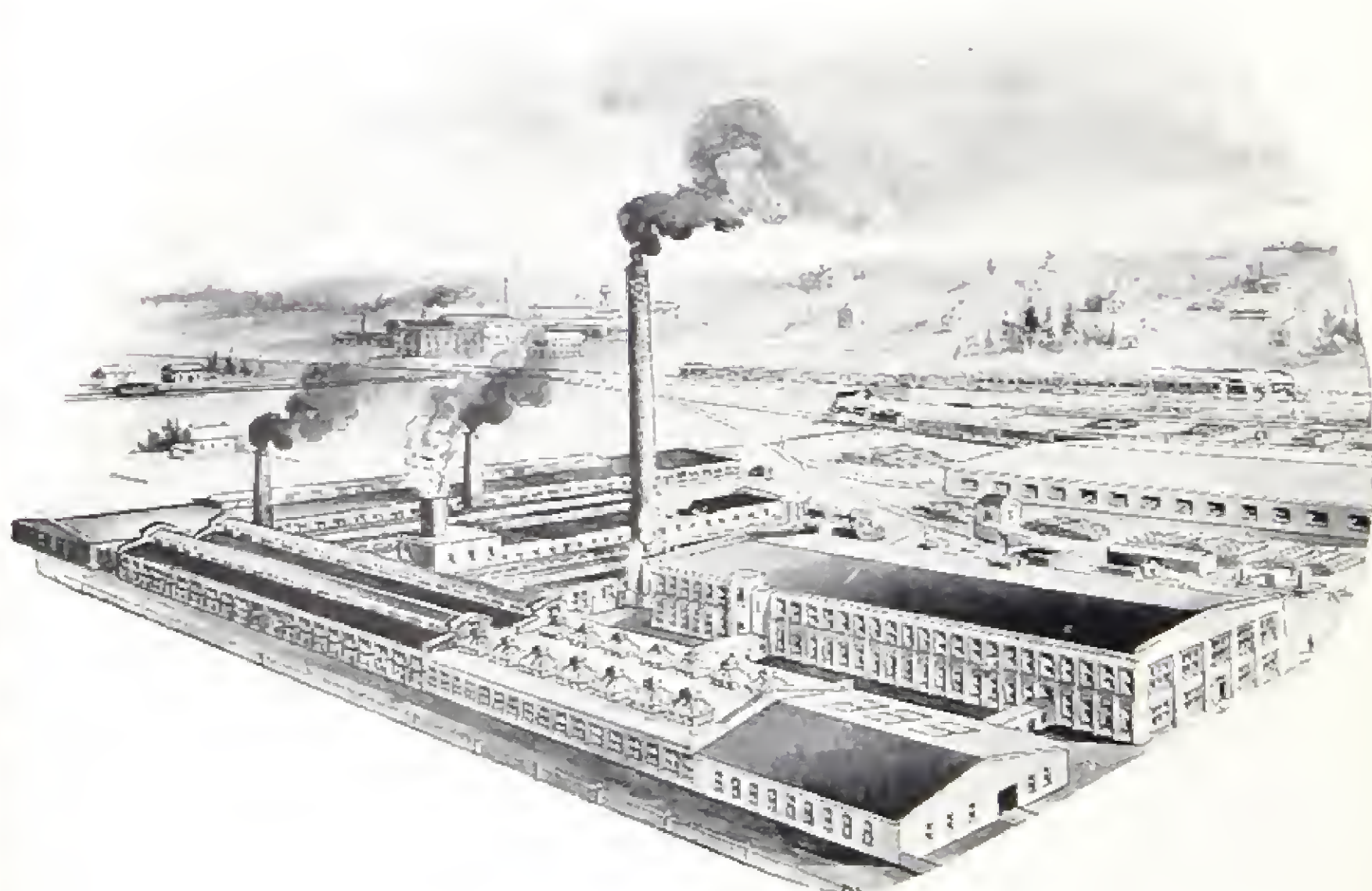


Brantford Boiler Plant

BRANTFORD

- - -

ONTARIO



Toronto Radiator Plant

TORONTO

- - -

ONTARIO

Prices herein supersede all former lists, and are subject to change without notice. Discounts quoted to regular trade only.

Goods and Service

THE heating products herein represented are made under the world's most highly developed scientific methods of test and manufacture, ensuring standardization, uniform working results and great durability.

Our manufacturing plants at Toronto and Brantford, Ontario, are of recent construction and thoroughly modern. Also our heating products are made in seventeen allied plants in Europe and the United States.

This close touch with the heating needs and practices of two continents, together with the use of high-grade materials, concentration in production and scientific thermal tests which we apply, enable us to offer values not equalled in the world's markets.

These values are accompanied by the advantages of an experienced selling organization and widely distributed stocks of both Boilers and Radiators carried by many of the best known jobbers throughout the provinces of the Dominion.

We respectfully solicit your correspondence in regard to our products, and all orders large or small are always welcome.

Sincerely yours,

DOMINION RADIATOR AND BOILER COMPANY, LTD.

May 15th, 1929.

Please destroy all former Catalogues and thereby avoid confusion.

Ideal Arco Water Boilers



For Guarantee and Coverings, Rating Conditions, Coils, etc., see pages 32 and 123.

Ideal Arco Water Boilers

LIST PRICES, RATINGS AND DIMENSIONS

Standard Number	Arco Number	List Price	Net Rating, Square Feet	Gross Rating, Square Feet	Diameter of Grate, Inches	Height over all, Inches	Height to Top Outlet, Inches	Height to Center of Return, Inches	Number and Size of Outlets and Inlets	Size of Smoke Pipe, Inches	Approx. Shipping Weight, Lbs.
2	4-19-W	\$320.00	360	540	19	52 $\frac{5}{8}$	45 $\frac{7}{8}$	15	2-2 $\frac{1}{2}$ "	8	900
2 $\frac{1}{2}$	5-19-W	356.00	425	637	19	57 $\frac{1}{8}$	50 $\frac{3}{8}$	15	2-2 $\frac{1}{2}$ "	8	1000
*	6-19-W	380.00	490	735	19	61 $\frac{3}{4}$	55	15	2-2 $\frac{1}{2}$ "	8	1100
3	4-22-W	382.00	500	750	22	55 $\frac{5}{8}$	47 $\frac{5}{8}$	15 $\frac{3}{4}$	2-3"	9	1150
3 $\frac{1}{2}$	5-22-W	425.00	575	852	22	60	52	15 $\frac{3}{4}$	2-3"	9	1275
*	6-22-W	458.00	650	975	22	64 $\frac{7}{8}$	56 $\frac{7}{8}$	15 $\frac{3}{4}$	2-3"	9	1400
4	4-25-W	462.00	675	1012	25	56 $\frac{1}{4}$	48 $\frac{3}{4}$	16 $\frac{5}{8}$	2-4"	9	1350
4 $\frac{1}{2}$	5-25-W	498.00	750	1125	25	61	53 $\frac{1}{2}$	16 $\frac{5}{8}$	2-4"	9	1500
*	6-25-W	550.00	825	1237	25	66 $\frac{1}{8}$	58 $\frac{5}{8}$	16 $\frac{5}{8}$	2-4"	9	1700
5	4-28-W	550.00	825	1237	28	59 $\frac{1}{2}$	50 $\frac{3}{4}$	16 $\frac{5}{8}$	2-4"	10	1675
5 $\frac{1}{2}$	5-28-W	590.00	925	1387	28	64 $\frac{1}{2}$	55 $\frac{3}{4}$	16 $\frac{5}{8}$	2-4"	10	1875
*	6-28-W	650.00	1025	1537	28	69 $\frac{5}{8}$	60 $\frac{7}{8}$	16 $\frac{5}{8}$	2-4"	10	2075
6	4-31-W	654.00	1050	1575	31	61 $\frac{5}{8}$	53 $\frac{1}{8}$	16 $\frac{5}{8}$	2-4"	10	1950
6 $\frac{1}{2}$	5-31-W	775.00	1250	1875	31	66 $\frac{3}{4}$	58 $\frac{1}{4}$	16 $\frac{5}{8}$	2-4"	10	2225
*	6-31-W	880.00	1450	2175	31	72 $\frac{1}{4}$	63 $\frac{3}{4}$	16 $\frac{5}{8}$	2-4"	10	2400
7	4-34-W	880.00	1450	2175	34	63 $\frac{5}{8}$	54 $\frac{1}{4}$	17 $\frac{3}{8}$	2-5"	11	2300
7 $\frac{1}{2}$	5-34-W	945.00	1700	2550	34	69	59 $\frac{5}{8}$	17 $\frac{3}{8}$	2-5"	11	2550
8	6-34-W	1052.00	1950	2925	34	74 $\frac{5}{8}$	65 $\frac{1}{4}$	17 $\frac{3}{8}$	2-5"	11	2825

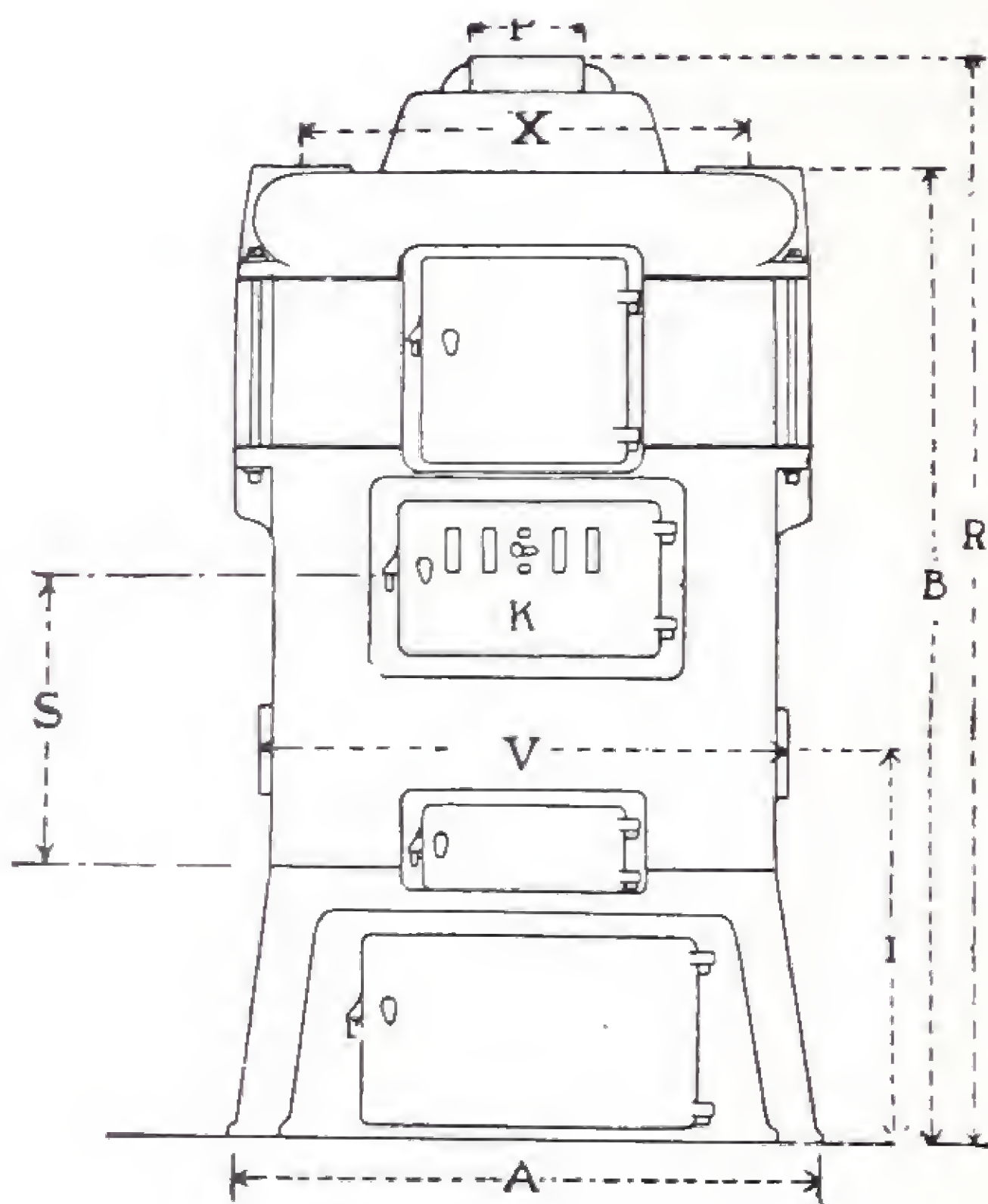
Note.—Odd size Arco Water Boilers designated by a * are not carried in stock at warehouses, but will be shipped from plant when ordered.

For Rating Conditions see page 32.

For further measurements, see pages 6 and 7.

For information required for ordering Boiler and Boiler repairs see page 33.

Ideal Arco Water Boiler Measurements



See page 7

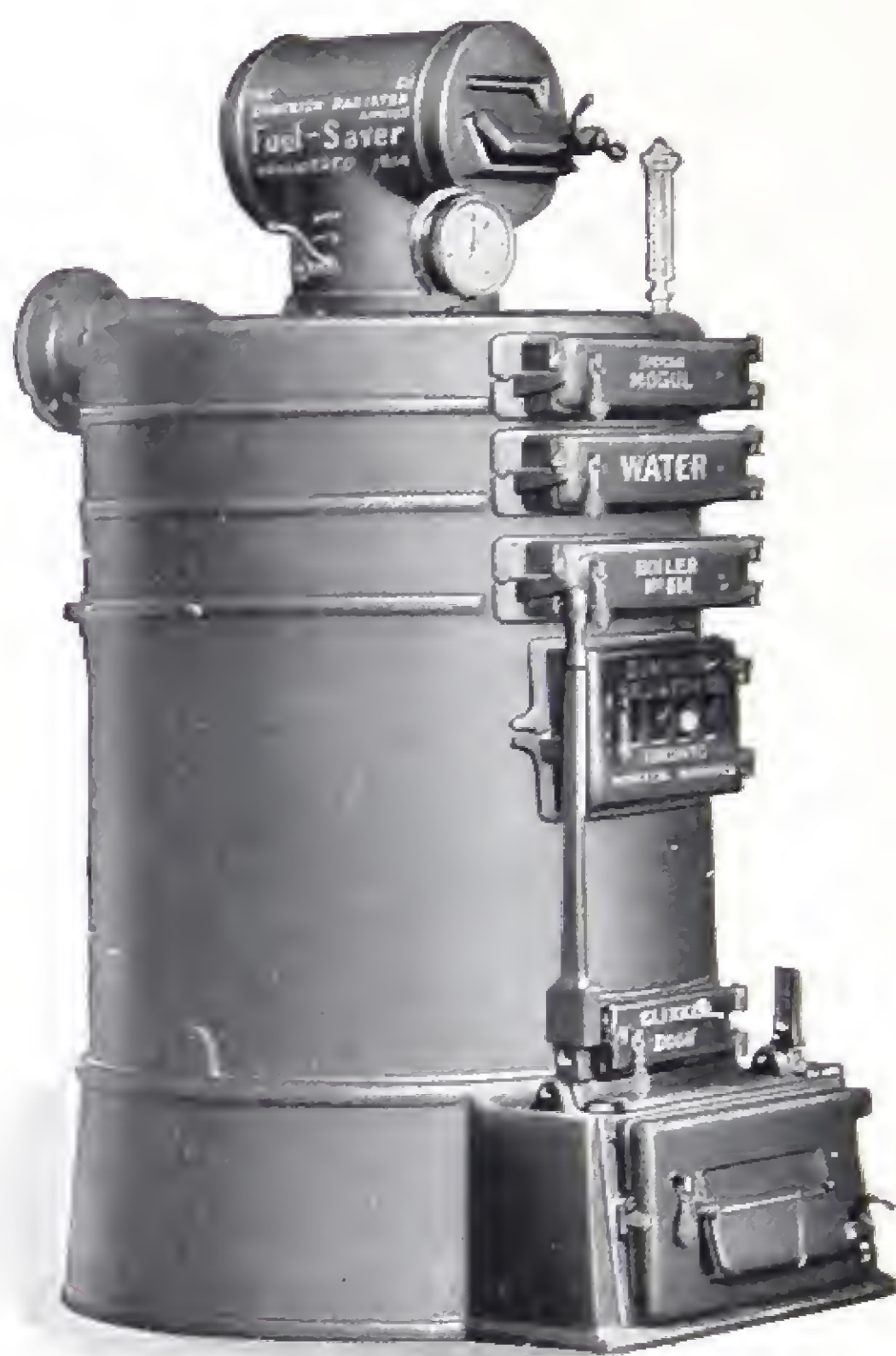
Ideal Arco Water Boilers

Measurements are in Inches

	A	B	I	K	P	R	S	V	X
4-19-W	27	45 $\frac{7}{8}$	15	8 $\frac{1}{2}$ x 11 $\frac{3}{4}$	8	52 $\frac{5}{8}$	15 $\frac{7}{8}$	24 $\frac{1}{8}$	19 $\frac{1}{4}$
5-19-W	27	50 $\frac{3}{8}$	15	8 $\frac{1}{2}$ x 11 $\frac{3}{4}$	8	57 $\frac{1}{8}$	15 $\frac{7}{8}$	24 $\frac{1}{8}$	19 $\frac{1}{4}$
6-19-W	27	55	15	8 $\frac{1}{2}$ x 11 $\frac{3}{4}$	8	61 $\frac{3}{4}$	15 $\frac{7}{8}$	24 $\frac{1}{8}$	19 $\frac{1}{4}$
4-22-W	30 $\frac{1}{8}$	47 $\frac{5}{8}$	15 $\frac{3}{4}$	9 x 13 $\frac{1}{4}$	9	55 $\frac{5}{8}$	16 $\frac{3}{4}$	27 $\frac{17}{32}$	23
5-22-W	30 $\frac{1}{8}$	52	15 $\frac{3}{4}$	9 x 13 $\frac{1}{4}$	9	60	16 $\frac{3}{4}$	27 $\frac{17}{32}$	23
6-22-W	30 $\frac{1}{8}$	56 $\frac{7}{8}$	15 $\frac{3}{4}$	9 x 13 $\frac{1}{4}$	9	64 $\frac{7}{8}$	16 $\frac{3}{4}$	27 $\frac{17}{32}$	23
4-25-W	33 $\frac{1}{8}$	48 $\frac{3}{4}$	16 $\frac{5}{8}$	9 x 13 $\frac{1}{4}$	9	56 $\frac{1}{4}$	17 $\frac{1}{2}$	30 $\frac{1}{8}$	25 $\frac{1}{2}$
5-25-W	33 $\frac{1}{8}$	53 $\frac{1}{2}$	16 $\frac{5}{8}$	9 x 13 $\frac{1}{4}$	9	61	17 $\frac{1}{2}$	30 $\frac{1}{8}$	25 $\frac{1}{2}$
6-25-W	33 $\frac{1}{8}$	58 $\frac{5}{8}$	16 $\frac{5}{8}$	9 x 13 $\frac{1}{4}$	9	66 $\frac{1}{8}$	17 $\frac{1}{2}$	30 $\frac{1}{8}$	25 $\frac{1}{2}$
4-28-W	36 $\frac{3}{4}$	50 $\frac{3}{4}$	16 $\frac{5}{8}$	9 $\frac{5}{8}$ x 18	10	59 $\frac{1}{2}$	18 $\frac{5}{8}$	34 $\frac{1}{16}$	29 $\frac{3}{8}$
5-28-W	36 $\frac{3}{4}$	55 $\frac{3}{4}$	16 $\frac{5}{8}$	9 $\frac{5}{8}$ x 18	10	64 $\frac{1}{2}$	18 $\frac{5}{8}$	34 $\frac{1}{16}$	29 $\frac{3}{8}$
6-28-W	36 $\frac{3}{4}$	60 $\frac{7}{8}$	16 $\frac{5}{8}$	9 $\frac{5}{8}$ x 18	10	69 $\frac{5}{8}$	18 $\frac{5}{8}$	34 $\frac{1}{16}$	29 $\frac{3}{8}$
4-31-W	39 $\frac{1}{8}$	53 $\frac{1}{8}$	16 $\frac{5}{8}$	9 $\frac{5}{8}$ x 18	10	61 $\frac{5}{8}$	19 $\frac{5}{16}$	36 $\frac{7}{8}$	32 $\frac{1}{4}$
5-31-W	39 $\frac{1}{8}$	58 $\frac{1}{4}$	16 $\frac{5}{8}$	9 $\frac{5}{8}$ x 18	10	66 $\frac{3}{4}$	19 $\frac{5}{16}$	36 $\frac{7}{8}$	32 $\frac{1}{4}$
6-31-W	39 $\frac{1}{8}$	63 $\frac{3}{4}$	16 $\frac{5}{8}$	9 $\frac{5}{8}$ x 18	10	72 $\frac{1}{4}$	19 $\frac{5}{16}$	36 $\frac{7}{8}$	32 $\frac{1}{4}$
4-34-W	42	54 $\frac{1}{4}$	17 $\frac{3}{8}$	9 $\frac{5}{8}$ x 18	11	63 $\frac{5}{8}$	19 $\frac{13}{16}$	39 $\frac{27}{32}$	37
5-34-W	42	59 $\frac{5}{8}$	17 $\frac{3}{8}$	9 $\frac{5}{8}$ x 18	11	69	19 $\frac{13}{16}$	39 $\frac{27}{32}$	37
6-34-W	42	65 $\frac{1}{4}$	17 $\frac{3}{8}$	9 $\frac{5}{8}$ x 18	11	74 $\frac{5}{8}$	19 $\frac{13}{16}$	39 $\frac{27}{32}$	37

IDEAL Boilers are so designed that any casting, whether round or square, may be taken through any door or opening which is not less than 2 feet 6 inches wide.

Mogul Round Hot-Water Boilers



Low Base—General View

NOTE.—Altitude Gauge and Thermometer shown above not furnished with Mogul Boilers.

Mogul Round Hot-Water Boilers

List Prices and Data

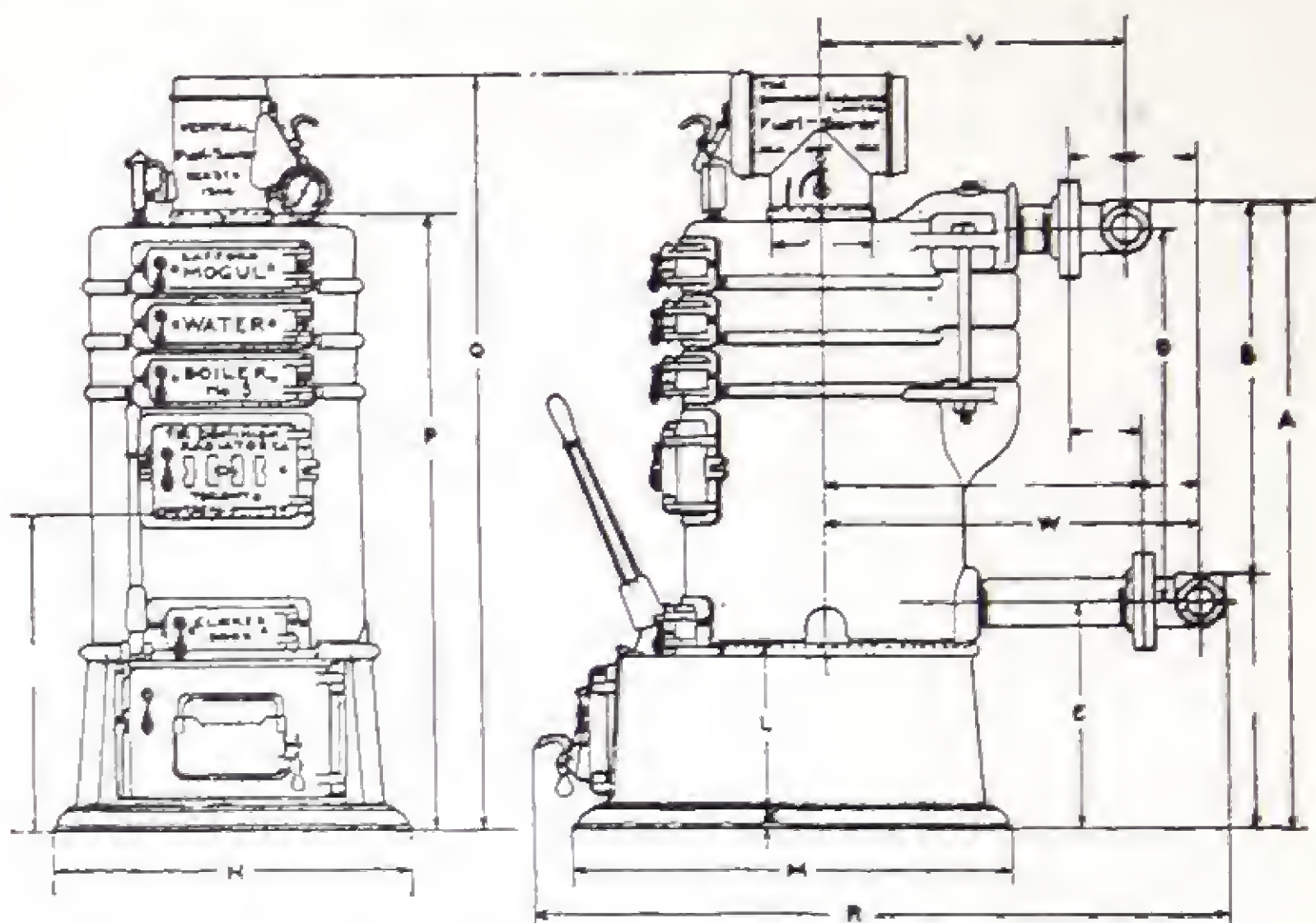
Information required for ordering Boilers and Boiler repairs, see page 33.

Size	List Price Low Base	List Price High Base	Gross Rating Square Feet	Net Rating Square Feet	Nominal Diam. of Grate	Area of Grate Square Feet	No. and Size Flow Openings	No. and Size Return Openings	Size of Smoke Outlet
1	\$ 268.00	\$ 302.00	375	250	17	1.50	4-2"	4-2"	7
1½	287.00	318.00	450	300	17	1.50	4-2"	4-2"	7
2	320.00	360.00	550	365	19	1.91	4-2"	4-2"	8
2½	356.00	395.00	625	420	19	1.91	4-2"	4-2"	8
3	382.00	425.00	750	500	22	2.58	5-2"	4-2"	9
3½	425.00	465.00	875	585	22	2.58	5-2"	4-2"	9
4	462.00	505.00	1,025	685	25	3.34	5-2"	4-2"	10
4½	498.00	545.00	1,125	750	25	3.34	5-2"	4-2"	10
5	550.00	603.00	1,250	835	28	4.58	4-2½" 3-2"	4-2½" 2-2"	10
5½	590.00	651.00	1,400	935	28	4.58			10
6	654.00	700.00	1,500	1,000	31	5.15			11
6½	775.00	842.00	1,875	1,250	32½	5.70	4-3" 4-2"	4-3" 3-2"	11
7	880.00	950.00	2,250	1,500	34	6.20			11
7½	945.00	1,017.00	2,650	1,765	34	6.20			11
8	1,052.00	1,160.00	3,000	2,000	37	7.36	4-3" 4-2"	4-3" 3-2"	12
8½	1,210.00	1,326.00	3,450	2,300	37	7.36			12
9	1,300.00	1,396.00	4,000	2,665	37	7.36			12

See note on Ratings and Guarantee page 32. Additional measurements, page 10. Where desired Safford Mogul Round Water Boilers Nos. 3-M to 9-M can be furnished with Special Headers having four 4" flow outlets and four 4" return inlets. These Headers should be described on orders as "Western Headers."

The Manufacture of Bottom Base Plates, on sizes 1 to 4 is discontinued but where required, will be supplied at following lists:—Nos. 1 and 1½ \$15.00, Nos. 2 and 2½, \$18.00, Nos. 3 and 3½, \$24.00. Subject to same discount as Boilers.

Mogul Round Hot-Water Boilers



Front View—Low Base

Side View—Low Base

See Note on Ratings and Guarantee page 32.

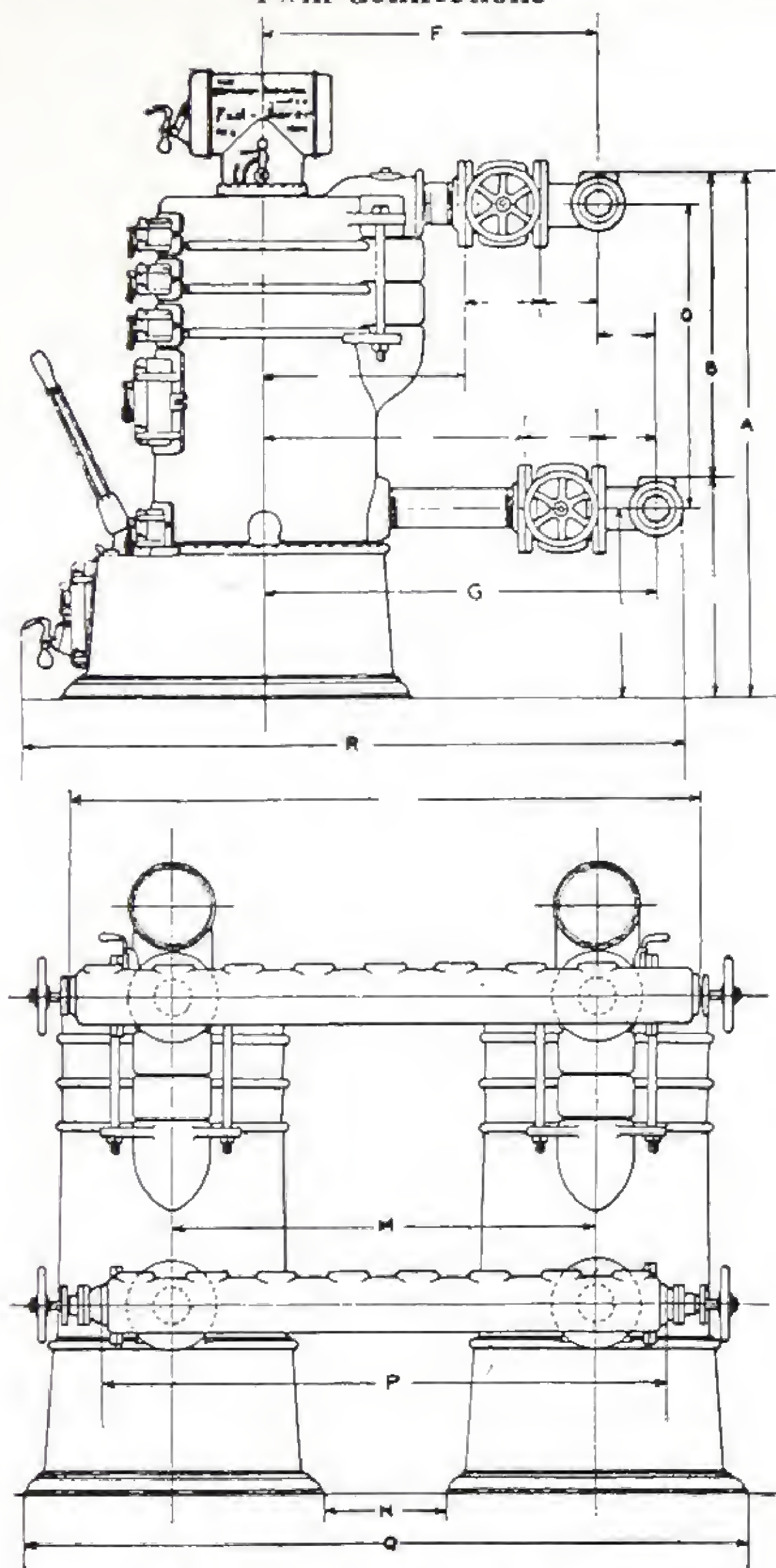
Where desired Safford Mogul Round Water Boilers Nos. 3-M to 9-M can be furnished with Special Headers, having 4-4 in. flow outlets and 4-4 in. return inlets. These Headers should be described on orders as "Western Headers."

For list prices, dimensions and capacities, see page 9.

Size	Low Base Only		Low Base Only		Low Base Only		Low Base Only		Low Base Only		Outside Diam. of Fire-Pot	Outside Depth of Fire-Pot	Size of Connections Boiler to Headers	Size of Barrel of Header
	A	B-D	E	L	N	P	Q	R	V	W				
1	44	26 ³ / ₄	14 ³ / ₄	11 ¹ / ₂	22 ³ / ₄	42 ³ / ₄	53 ¹ / ₂	50	21 ¹ / ₂	26 ¹ / ₂	19 ³ / ₄	18	3"	3"
1 ¹ / ₂	48	30 ³ / ₄	14 ³ / ₄	11 ¹ / ₂	22 ³ / ₄	46 ³ / ₄	57 ¹ / ₂	50	21 ¹ / ₂	26 ¹ / ₂	19 ³ / ₄	18	3"	3"
2	44 ⁵ / ₈	27 ¹ / ₂	14 ³ / ₄	11 ¹ / ₂	24 ³ / ₄	43 ¹ / ₄	55	51	22 ¹ / ₂	27 ¹ / ₂	22	18 ¹ / ₂	3"	3"
2 ¹ / ₂	48 ⁵ / ₈	31 ¹ / ₂	14 ³ / ₄	11 ¹ / ₂	24 ³ / ₄	47 ¹ / ₄	59	51	22 ¹ / ₂	27 ¹ / ₂	22	18 ¹ / ₂	3"	3"
3	48 ¹ / ₄	30	15 ³ / ₄	12	28 ¹ / ₄	47	59 ¹ / ₂	54 ¹ / ₂	24 ¹ / ₄	29 ¹ / ₄	25	20	4"	3"
3 ¹ / ₂	52 ³ / ₄	34 ¹ / ₂	15 ³ / ₄	12	28 ¹ / ₄	51 ¹ / ₂	64	54 ¹ / ₂	24 ¹ / ₄	29 ¹ / ₄	25	20	4"	3"
4	51 ¹ / ₂	33	16	12	31 ¹ / ₂	50 ¹ / ₂	64 ³ / ₄	56 ¹ / ₂	24 ¹ / ₂	29 ¹ / ₂	28	23	4"	4"
4 ¹ / ₂	56	37 ¹ / ₂	16	12	31 ¹ / ₂	55	69 ¹ / ₄	56 ¹ / ₂	24 ¹ / ₂	29 ¹ / ₂	28	23	4"	4"
5	54 ³ / ₄	34 ³ / ₄	17 ¹ / ₂	13	34 ³ / ₄	54 ¹ / ₄	68	62	26 ³ / ₄	31 ³ / ₄	31 ¹ / ₄	24	5"	4"
5 ¹ / ₂	59 ³ / ₄	39 ³ / ₄	17 ¹ / ₂	13	34 ³ / ₄	59 ¹ / ₄	73	62	26 ³ / ₄	31 ³ / ₄	31 ¹ / ₄	24	5"	4"
6	56	35 ³ / ₄	17 ¹ / ₂	13	39	55 ¹ / ₄	70 ³ / ₄	65	28 ¹ / ₄	33 ¹ / ₄	34 ¹ / ₄	25	5"	5"
6 ¹ / ₂	56	35 ³ / ₄	18	13	40 ¹ / ₂	55 ¹ / ₄	70 ³ / ₄	66 ¹ / ₂	29	34	35 ³ / ₄	25	5"	5"
7	56 ³ / ₄	35 ⁵ / ₈	18 ¹ / ₄	13	42	55 ³ / ₄	71 ¹ / ₄	69	30 ¹ / ₂	35 ¹ / ₂	37 ¹ / ₄	25 ¹ / ₂	6"	5"
7 ¹ / ₂	61 ³ / ₄	40 ⁵ / ₈	18 ¹ / ₄	13	42	60 ³ / ₄	76 ¹ / ₄	69	30 ¹ / ₂	35 ¹ / ₂	37 ¹ / ₄	25 ¹ / ₂	6"	5"
8	57 ¹ / ₂	36 ¹ / ₈	18 ¹ / ₄	13	45	56 ¹ / ₂	72 ¹ / ₂	73	32	37	40 ¹ / ₄	26	6"	6"
8 ¹ / ₂	62 ¹ / ₂	41 ¹ / ₈	18 ¹ / ₄	13	45	61 ¹ / ₂	77 ¹ / ₂	73	32	37	40 ¹ / ₄	26	6"	6"
9	67 ¹ / ₂	46 ¹ / ₈	18 ¹ / ₄	13	45	66 ¹ / ₂	82 ¹ / ₂	73	32	37	40 ¹ / ₄	26	6"	6"

Mogul Round Hot-Water Boilers

Twin Connections



Twin Connections and Valves

No allowance will be made for ordinary Headers. See additional measurements, page 12.

Allowance for Valves when not Required

Nos. 1	-M to 2½-M.....	\$10.00 each net
Nos. 3	-M to 4½-M.....	15.00 each net
Nos. 5	-M to 6 -M.....	18.00 each net
No. 6½-M.....		24.00 each net
Nos. 7	-M to 7½-M.....	28.00 each net
Nos. 8	-M to 9 -M.....	28.00 each net

Note.—When a larger and smaller size Boiler are connected together, use list on Headers for larger size.

Mogul Round Hot-Water Boilers

LIST PRICES AND DATA

Twin, Triple and Quadruple Connections.

No. of Boiler	Price List of Connections Including Valves			Inside Diameter of Headers			No. and Sizes of Valves		
	Twin	Triple	Quad.	Twin	Triple	Quad	Twin	Triple	Quad
2 -M	\$145.00	\$210.00	\$290.00	4"	5"	6"	4-3"	6-3"	8-3"
2 1/2-M	145.00	210.00	290.00	4"	5"	6"	4-3"	6-3"	8-3"
3 -M	145.00	210.00	290.00	5"	6"	7"	4-4"	6-4"	8-4"
3 1/2-M	145.00	210.00	290.00	5"	6"	7"	4-4"	6-4"	8-4"
4 -M	145.00	210.00	290.00	5"	6"	7"	4-4"	6-4"	8-4"
4 1/2-M	145.00	210.00	290.00	5"	6"	7"	4-4"	6-4"	8-4"
5 -M	200.00	290.00	400.00	6"	7"	8"	4-5"	6-5"	8-5"
5 1/2-M	200.00	290.00	400.00	6"	7"	8"	4-5"	6-5"	8-5"
6 -M	200.00	290.00	400.00	6"	7"	8"	4-5"	6-5"	8-5"
6 1/2-M	220.00	315.00	.....	7"	8"	..	4-5"	6-5"	.....
7 -M	280.00	.....	.....	8"	..	..	4-6"	.....	.....
7 1/2-M	280.00	.....	.....	8"	..	..	4-6"	.....	.....
8 -M	320.00	.....	.....	8"	..	..	4-6"	.....	.....
8 1/2-M	320.00	.....	.....	8"	..	..	4-6"	.....	.....
9 -M	450.00	.....	.....	8"	..	..	4-6"	.....	.....

Measurements—Twin Connections Only.

See Outline Drawings on page 11.

No. of Boiler	Low Base	These Measurements are the same for Low and High Base Boilers						
	A	B-D	F	G	R	M	N	Q
2 -M	44 5/8	27 1/2	30	36 1/2	61	34 1/4	9 1/2	59
2 1/2-M	48 5/8	31 1/2	30	36 1/2	61	34 1/4	9 1/2	59
3 -M	48 1/4	30	32 3/4	39 1/2	65	37 3/8	9 1/4	66
3 1/2-M	52 3/4	34 1/2	32 3/4	39 1/2	65	37 3/8	9 1/4	66
4 -M	51 1/2	33	33 3/4	40 1/2	68	42	10 1/2	73 1/2
4 1/2-M	56	37 1/2	33 3/4	40 1/2	68	42	10 1/2	73 1/2
5 -M	54 3/4	34 3/4	37 3/4	44 1/2	74	46 1/2	11 3/4	81 1/2
5 1/2-M	59 3/4	39 3/4	37 3/4	44 1/2	74	46 1/2	11 3/4	81 1/2
6 -M	56	35 3/4	40	46 1/2	78	49 1/2	10 1/2	88 1/2
6 1/2-M	56	35 3/4	40 3/4	47 1/2	80	49 1/2	9	90
7 -M	56 3/4	35 5/8	43 1/2	50 1/2	84	52 3/4	10 3/4	95
7 1/2-M	61 3/4	40 5/8	43 1/2	50 1/2	84	52 3/4	10 3/4	95
8 -M	57 1/2	36 1/8	45 3/4	53	88	55 3/4	10 3/4	100
8 1/2-M	62 1/2	41 1/8	45 3/4	53	88	55 3/4	10 3/4	100
9 -M	67 1/2	46 7/8	45 3/4	53	88	55 3/4	10 3/4	100

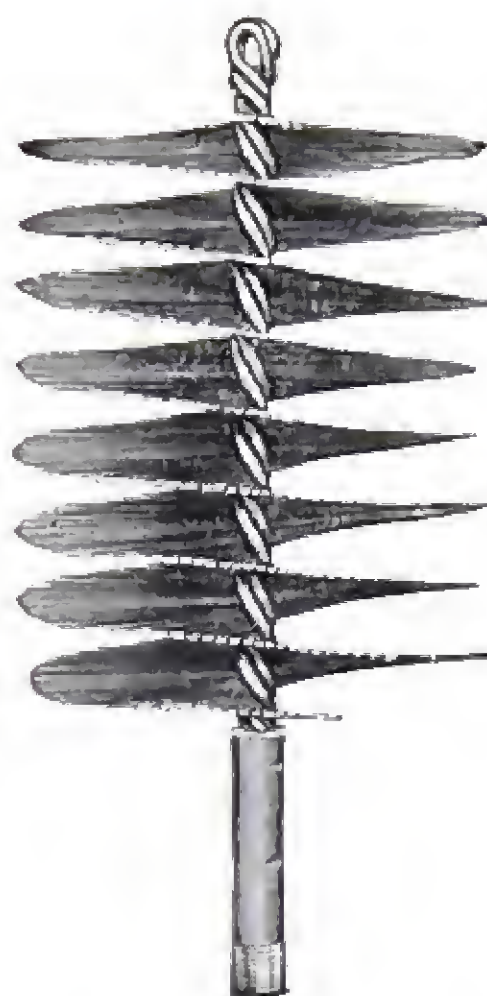
See Note on Ratings and Guarantee, page 32.

Note.—When ordering Twin, Triple or Quadruple Headers for Boilers of different sizes, be sure to give location of boilers as you face boilers, also sketch, showing number and sizes of openings on headers.

Ideal Boiler Flue Brushes

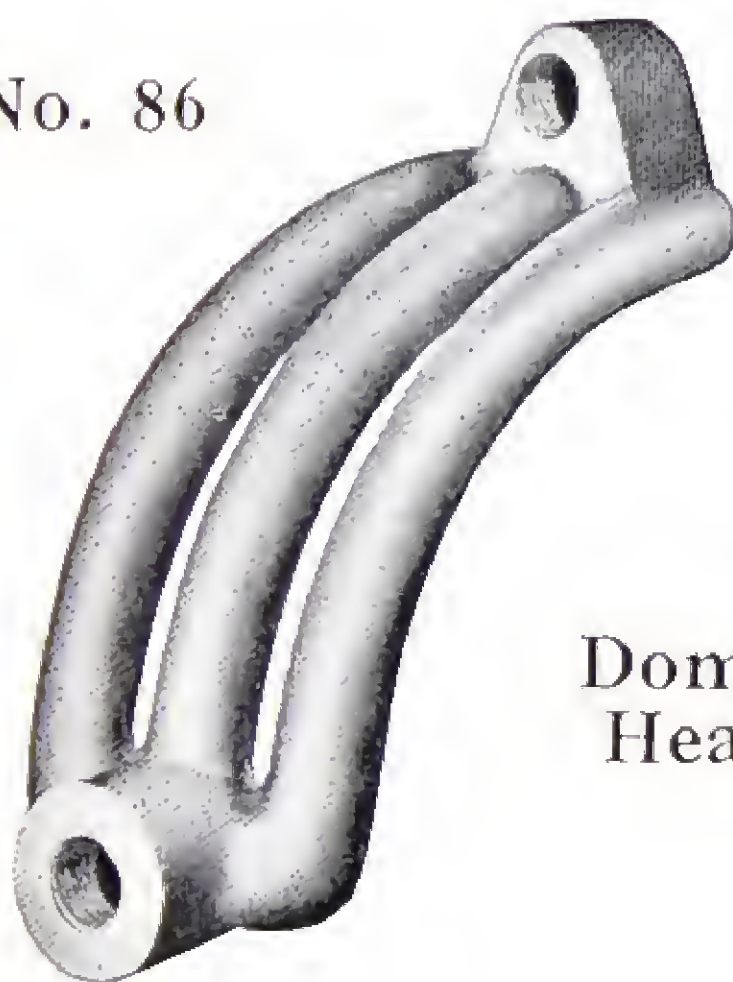


No. 1
3 $\frac{1}{4}$ " x 1 $\frac{3}{8}$ " x 4"
For Arco and
Mogul Boilers



No. 3
4 $\frac{1}{2}$ " x 2 $\frac{3}{4}$ " x 6"
For Sectional
Boilers

No. 86



Domestic
Heaters



Mogul Domestic Heater

Arco Round Boilers		
No. 4-19 to 6-34,	\$4.50	List Price

Triumph and Safford Water Boilers Old Style Series "A" and "C"		
No. 85	\$5.50	List Price
" 86	4.50	" "

Mogul Boilers		
No. 1-2 $\frac{1}{2}$	\$2.50	List Price
" 3-3 $\frac{1}{2}$	3.50	" "
" 4-6 $\frac{1}{2}$	4.25	" "
" 7-9	5.50	" "

Bungalow Heaters	
Ideal and Safford Bungalow	\$2.50 List Price

Safford Bungalow Heater

FOR HEATING BUNGALOWS
COTTAGES AND APARTMENTS
BY HOT WATER



Safford Bungalow Heater

Fire door openings: B-10 and B-12— $8\frac{1}{2}$ " x 10". B-20 to B-32— 10 " x $10\frac{3}{4}$ ".

For List Prices and Measurements see opposite page.

Safford Bungalow Heaters

Most Simple to Run

The Safford Bungalow Heater is in general purpose like a stove, as it heats the room in which it is placed. But is unlike a stove in that the spaces between its hollow or double walls are filled with water which, as heated, expands and circulates through connected piping to hot water radiators in adjoining rooms. The water rises as it is heated, and as it cools in the radiators (by parting with some of its warmth to the air of the rooms) the cooler and therefore heavier water returns to the Boiler to be reheated, over and over again. Hence the efficiency and economy. High winds cannot arrest, nor chilling cold offset its ample flow of warmth.

Sizes

No.	Rooms	Net Capacity in Sq. Ft. of Radiation	Height	Diam.	Smoke Pipe	List Price without Base Plate	List Price with Base Plate
B-10	3 to 4	150	40"	18 1/2"	6"	\$120.00	\$132.00
B-12	4	200	45"	18 1/2"	6"	143.00	155.00
B-20	5	325	46"	21"	6"	164.00	176.00
B-22	5 to 6	400	52"	21"	6"	203.00	215.00
B-30	6	525	46"	24 1/2"	7"	210.00	225.00
B-32	6 to 7	600	52"	24 1/2"	7"	249.00	264.00

Note.—B-10 and B-12 Safford Bungalow Heaters are not provided with coil openings in Firepot for Domestic Heater.

All Safford Bungalow Heaters will be regularly furnished without Bottom Base Plates unless otherwise ordered. Base Plates are required when the Heaters are set on wood or other inflammable floors.

Ideal Arco Round Steam Boiler



For Guarantee and Coverings, Rating Conditions, Coils, etc., see pages 32 and 123.

Ideal Arco Round Steam Boiler

List Prices, Ratings and Dimensions

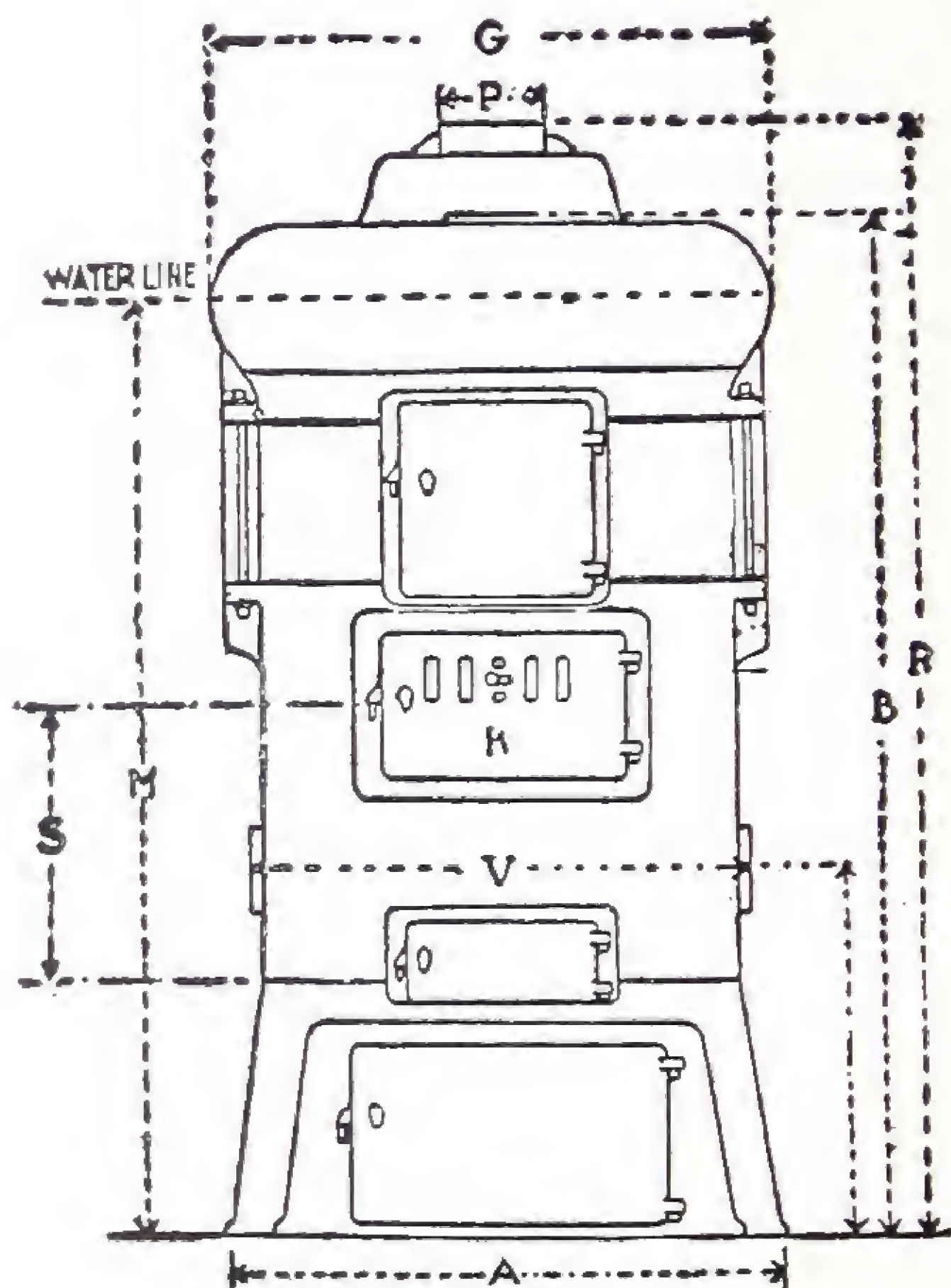
No.	List Price	Gross Rating Square Feet	Diameter of Grate, Inches	Height to Top Outlet, Inches	Height to Centre of Return, Inches	Height of Water Line, Inches	Outlets Number and Size	Inlets Number and Size	Size of Smoke Pipe, Inches	Approx. Shipping Weight, Lbs.
4-19-S	\$205.00	300	19	52 1/2	14 3/4	45 1/2	1-2 1/2"	2-2 1/2"	8	1000
5-19-S	215.00	350	19	57	14 3/4	50	1-2 1/2"	2-2 1/2"	8	1150
6-19-S	235.00	400	19	61 5/8	14 3/4	54 5/8	1-2 1/2"	2-2 1/2"	8	1300
4-22-S	255.00	450	22	54	15 3/4	47	1-3"	2-3"	9	1350
5-22-S	295.00	525	22	58 1/2	15 3/4	51 1/2	1-3"	2-3"	9	1450
6-22-S	312.50	575	22	63 1/4	15 3/4	56 1/4	1-3"	2-3"	9	1625
4-25-S	295.00	550	25	55 5/8	16 1/4	47 7/8	1-4"	2-4"	9	1575
5-25-S	325.00	625	25	60 1/4	16 1/4	52 1/2	1-4"	2-4"	9	1700
6-25-S	337.00	700	25	65 3/8	16 1/4	57 5/8	1-4"	2-4"	9	1900
4-28-S	375.00	800	28	57 5/8	16 3/8	49 1/4	1-4"	2-4"	10	1900
5-28-S	400.00	900	28	62 5/8	16 3/8	54 1/4	1-4"	2-4"	10	2125
6-28-S	425.00	1000	28	67 5/8	16 3/8	59 1/2	1-4"	2-4"	10	2400
4-31-S	450.00	1100	31	59 3/4	16 1/4	51	1-4"	2-4"	10	2200
5-31-S	500.00	1275	31	65	16 1/4	56 1/4	1-4"	2-4"	10	2450
6-31-S	525.00	1400	31	70 3/8	16 1/4	61 5/8	1-4"	2-4"	10	2675
4-34-S	500.00	1300	34	61 1/2	17	52	1-5"	2-5"	11	2550
5-34-S	550.00	1500	34	67	17	57 1/2	1-5"	2-5"	11	2775
6-34-S	587.50	1650	34	72 5/8	17	63 1/8	1-5"	2-5"	11	3100

For Rating Conditions, see page 32.

For further measurements, see pages 18 and 19.

For information required for ordering Boiler and Boiler repairs see page 33.

Ideal Arco Round Steam Boiler Measurements



See page 19.

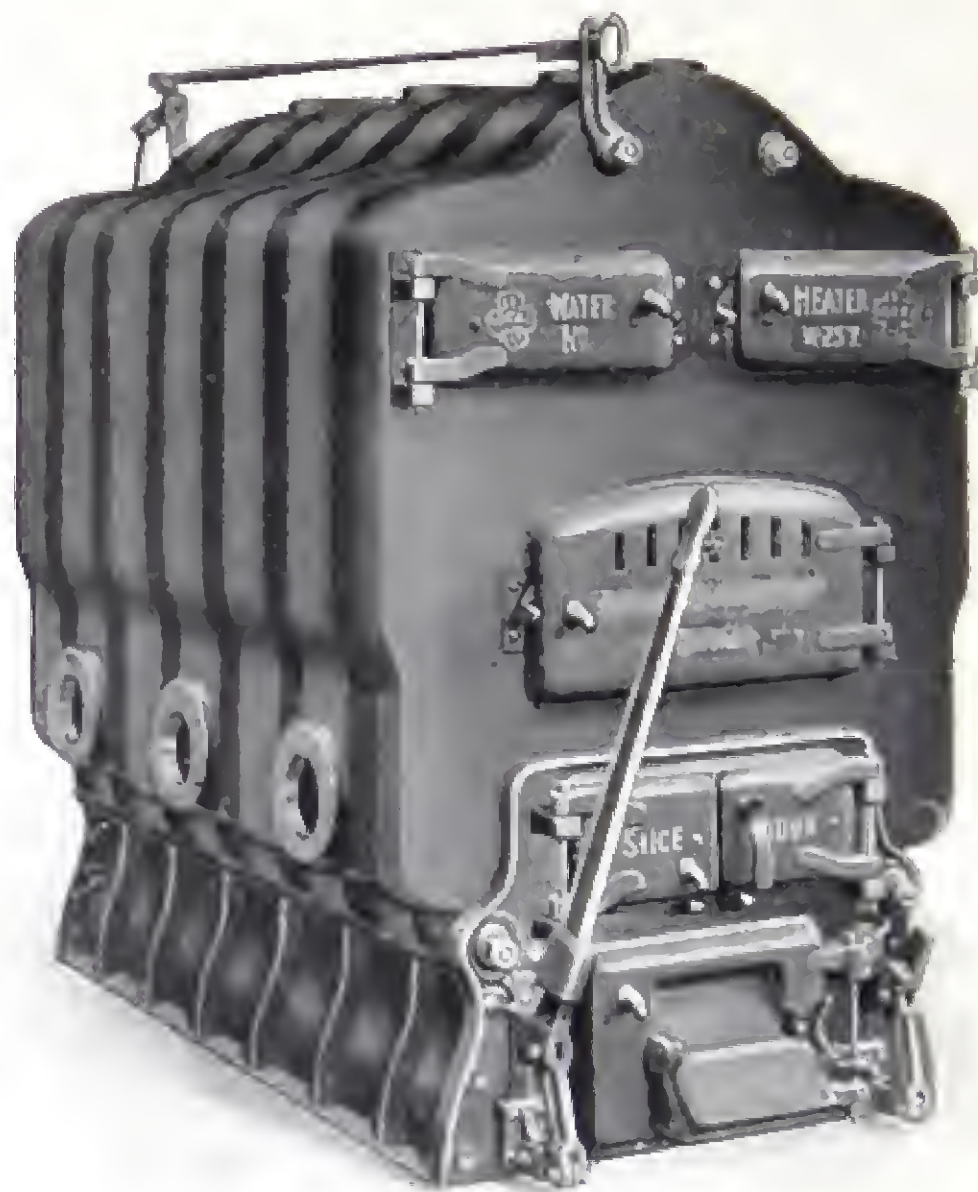
Ideal Arco Round Steam Boilers

Measurements are in Inches

	G	B	I	K .	M	P	R	S	V
4-19-S	26 $\frac{5}{8}$	52 $\frac{1}{2}$	15	8 $\frac{1}{2}$ x 11 $\frac{3}{4}$	45 $\frac{1}{2}$	8	59 $\frac{5}{8}$	15 $\frac{7}{8}$	24 $\frac{1}{8}$
5-19-S	26 $\frac{5}{8}$	57	15	8 $\frac{1}{2}$ x 11 $\frac{3}{4}$	50	8	64 $\frac{1}{8}$	15 $\frac{7}{8}$	24 $\frac{1}{8}$
6-19-S	26 $\frac{5}{8}$	61 $\frac{5}{8}$	15	8 $\frac{1}{2}$ x 11 $\frac{3}{4}$	54 $\frac{5}{8}$	8	68 $\frac{3}{4}$	15 $\frac{7}{8}$	24 $\frac{1}{8}$
4-22-S	30 $\frac{1}{4}$	54	15 $\frac{3}{4}$	9 x 13 $\frac{1}{4}$	47	9	62 $\frac{1}{4}$	16 $\frac{3}{4}$	27 $\frac{17}{32}$
5-22-S	30 $\frac{1}{4}$	58 $\frac{1}{2}$	15 $\frac{3}{4}$	9 x 13 $\frac{1}{4}$	51 $\frac{1}{2}$	9	66 $\frac{3}{4}$	16 $\frac{3}{4}$	27 $\frac{17}{32}$
6-22-S	30 $\frac{1}{4}$	63 $\frac{1}{4}$	15 $\frac{3}{4}$	9 x 13 $\frac{1}{4}$	56 $\frac{1}{4}$	9	71 $\frac{1}{2}$	16 $\frac{3}{4}$	27 $\frac{17}{32}$
4-25-S	32 $\frac{15}{16}$	55 $\frac{5}{8}$	16 $\frac{5}{8}$	9 x 13 $\frac{1}{4}$	47 $\frac{7}{8}$	9	63 $\frac{3}{8}$	17 $\frac{1}{2}$	30 $\frac{1}{8}$
5-25-S	32 $\frac{15}{16}$	60 $\frac{1}{4}$	16 $\frac{5}{8}$	9 x 13 $\frac{1}{4}$	52 $\frac{1}{2}$	9	68	17 $\frac{1}{2}$	30 $\frac{1}{8}$
6-25-S	32 $\frac{15}{16}$	65 $\frac{3}{8}$	16 $\frac{5}{8}$	9 x 13 $\frac{1}{4}$	57 $\frac{5}{8}$	9	73 $\frac{1}{8}$	17 $\frac{1}{2}$	30 $\frac{1}{8}$
4-28-S	36 $\frac{15}{16}$	57 $\frac{5}{8}$	16 $\frac{5}{8}$	9 $\frac{5}{8}$ x 18	49 $\frac{1}{4}$	10	66 $\frac{5}{8}$	18 $\frac{5}{8}$	34 $\frac{1}{16}$
5-28-S	36 $\frac{15}{16}$	62 $\frac{5}{8}$	16 $\frac{5}{8}$	9 $\frac{5}{8}$ x 18	54 $\frac{1}{4}$	10	71 $\frac{5}{8}$	18 $\frac{5}{8}$	34 $\frac{1}{16}$
6-28-S	36 $\frac{15}{16}$	67 $\frac{5}{8}$	16 $\frac{5}{8}$	9 $\frac{5}{8}$ x 18	59 $\frac{1}{2}$	10	76 $\frac{7}{8}$	18 $\frac{5}{8}$	34 $\frac{1}{16}$
4-31-S	40 $\frac{3}{8}$	59 $\frac{3}{4}$	16 $\frac{5}{8}$	9 $\frac{5}{8}$ x 18	51	10	68 $\frac{5}{8}$	19 $\frac{5}{16}$	36 $\frac{7}{8}$
5-31-S	40 $\frac{3}{8}$	65	16 $\frac{5}{8}$	9 $\frac{5}{8}$ x 18	56 $\frac{1}{4}$	10	73 $\frac{7}{8}$	19 $\frac{5}{16}$	36 $\frac{7}{8}$
6-31-S	40 $\frac{3}{8}$	70 $\frac{3}{8}$	16 $\frac{5}{8}$	9 $\frac{5}{8}$ x 18	61 $\frac{5}{8}$	10	79 $\frac{1}{4}$	19 $\frac{5}{16}$	36 $\frac{7}{8}$
4-34-S	45 $\frac{3}{16}$	61 $\frac{1}{2}$	17 $\frac{3}{8}$	9 $\frac{5}{8}$ x 18	52	11	71 $\frac{1}{4}$	19 $\frac{13}{16}$	39 $\frac{27}{32}$
5-34-S	45 $\frac{3}{16}$	67	17 $\frac{3}{8}$	9 $\frac{5}{8}$ x 18	57 $\frac{1}{2}$	11	76 $\frac{3}{4}$	19 $\frac{13}{16}$	39 $\frac{27}{32}$
6-34-S	45 $\frac{3}{16}$	72 $\frac{5}{8}$	17 $\frac{3}{8}$	9 $\frac{5}{8}$ x 18	63 $\frac{1}{8}$	11	82 $\frac{3}{8}$	19 $\frac{13}{16}$	39 $\frac{27}{32}$

IDEAL Boilers are so designed that any casting, whether round or square, may be taken through any door or opening which is not less than 2 feet 6 inches wide.

Ideal Sectional Water Boilers



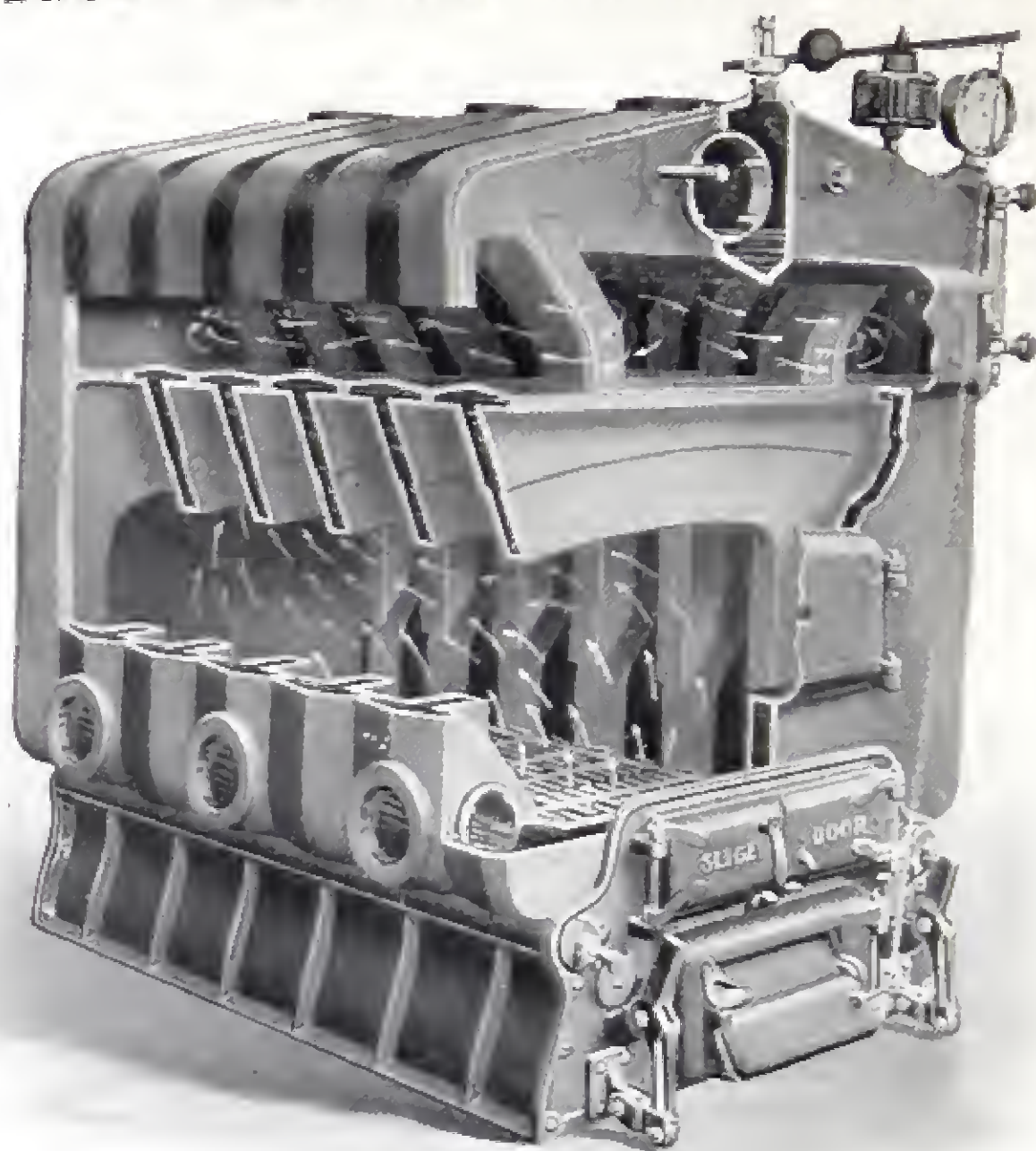
For Price List, see opposite page.
For Measurements, see pages 24 and 25.

Ideal Sectional Water Boilers—List Price and Data

No. (Including Sections)	Length Total, In.	Height Total, In.	Width Total, In.	Grate Area Sq. Ft.	Average Fire Pot Sq. Ft.	Outlets	Smoke Pipe, Ins.	Asht Pit (Inside) Inches	Ratings (Note)	List Price Complete
W-19-5	51 ³ / ₄	50	31 ¹ / ₄	3.32	4.00	2-3"	9	20 x 29 ¹⁵ / ₁₆	1000	\$287.50
W-19-6	58 ³ / ₈	50	31 ¹ / ₄	4.15	5.00	2-3"	9	20 x 36 ⁵ / ₈	1250	325.00
W-19-7	65	50	31 ¹ / ₄	4.98	6.00	3-3"	9	20 x 43 ¹⁵ / ₁₆	1500	375.00
W-22-5	53 ¹ / ₄	53	35 ¹ / ₄	4.08	4.84	2-4"	10	23 ¹ / ₈ x 31 ¹³ / ₁₆	1300	350.00
W-22-6	60 ¹ / ₄	53	35 ¹ / ₄	5.10	6.05	2-4"	10	23 ¹ / ₈ x 38 ⁷ / ₈	1650	400.00
W-22-7	67 ¹ / ₄	53	35 ¹ / ₄	6.12	7.26	3-4"	10	23 ¹ / ₈ x 45 ¹⁵ / ₁₆	2000	450.00
W-25-5	59 ¹ / ₄	57 ⁷ / ₈	40 ³ / ₈	5.44	6.48	2-4"	11	28 x 35 ³ / ₁₆	1825	425.00
W-25-6	66 ⁷ / ₈	57 ⁷ / ₈	40 ³ / ₈	6.80	8.10	2-4"	11	28 x 42 ⁷ / ₈	2225	487.50
W-25-7	74 ¹ / ₂	57 ⁷ / ₈	40 ³ / ₈	8.16	9.72	3-4"	11	28 x 50 ⁹ / ₁₆	2650	550.00
W-25-8	82 ¹ / ₄	57 ⁷ / ₈	40 ³ / ₈	9.52	11.34	3-4"	11	28 x 58 ¹ / ₄	3050	612.50
W-28-5	60	60 ⁵ / ₈	43 ¹ / ₂	6.24	7.33	2-4"	12	30 ⁵ / ₈ x 35 ¹ / ₂	2150	475.00
W-28-6	68	60 ⁵ / ₈	43 ¹ / ₂	7.80	9.16	2-4"	12	30 ⁵ / ₈ x 43 ¹ / ₂	2675	562.50
W-28-7	76	60 ⁵ / ₈	43 ¹ / ₂	9.36	10.99	3-4"	12	30 ⁵ / ₈ x 51 ¹ / ₂	3200	637.50
W-28-8	84	60 ⁵ / ₈	43 ¹ / ₂	10.92	12.83	3-4"	12	30 ⁵ / ₈ x 59 ¹ / ₂	3725	725.00
W-36-5	69 ³ / ₄	69 ¹ / ₈	53 ¹ / ₄	9.12	10.40	2-5"	15	38 ¹⁵ / ₁₆ x 40 ³ / ₄	3450	675.00
W-36-6	78 ⁷ / ₈	69 ¹ / ₈	53 ¹ / ₄	11.40	13.00	2-5"	15	38 ¹⁵ / ₁₆ x 49 ⁷ / ₈	4325	800.00
W-36-7	88	69 ¹ / ₈	53 ¹ / ₄	13.68	15.60	3-5"	15	38 ¹⁵ / ₁₆ x 59	5200	925.00
W-36-8	97 ¹ / ₈	69 ¹ / ₈	53 ¹ / ₄	15.96	18.20	3-5"	15	38 ¹⁵ / ₁₆ x 68 ¹ / ₈	6050	1062.50
W-36-9	106 ¹ / ₄	69 ¹ / ₈	53 ¹ / ₄	18.24	20.80	4-5"	15	38 ¹⁵ / ₁₆ x 77 ¹ / ₄	6925	1187.50
W-4806	85 ¹ / ₂	81	69	18.00	18.75	2-6"	21	52 x 54 ¹ / ₂	8700	1437.50
W-4807	96 ¹ / ₄	81	69	21.60	22.50	3-6"	21	52 x 65 ¹ / ₄	10375	1687.50
W-4808	107	81	69	25.20	26.50	3-6"	21	52 x 76	12050	1950.00
W-4809	117 ¹ / ₄	81	69	25.20	26.50	3-6"	21	52 x 86 ³ / ₄	13725	2200.00
W-4810	128 ¹ / ₂	81	69	28.80	30.00	3-6"	21	52 x 97 ¹ / ₂	15400	2462.50

Additional measurements on pages 24 and 25. For each supply outlet on top of Boiler there are corresponding return inlets on both sides. Supply outlets on 48 inch boilers are located on Left Half and center of outlets are 10⁵/₁₆ inches to left of center line of boiler. The return outlets on the back section of the 48-inch Boilers should be yoked together and used in preference to the additional return tappings on either side of the Boiler. Above are hard-coal ratings—soft coal requires one size larger. See Note on ratings, page 32. For Wood Burning.—On special order the 19-inch Boilers are fitted with special grates and 10¹/₄ x 18-inch fire-door; 22-inch and 25-inch, with 11¹/₈ x 18-inch fire-door; 28-inch, with 12¹/₈ x 19³/₁₆-inch fire door; 36-inch, with 13¹/₈ x 24-inch fire-door.

Ideal Sectional Steam Boilers

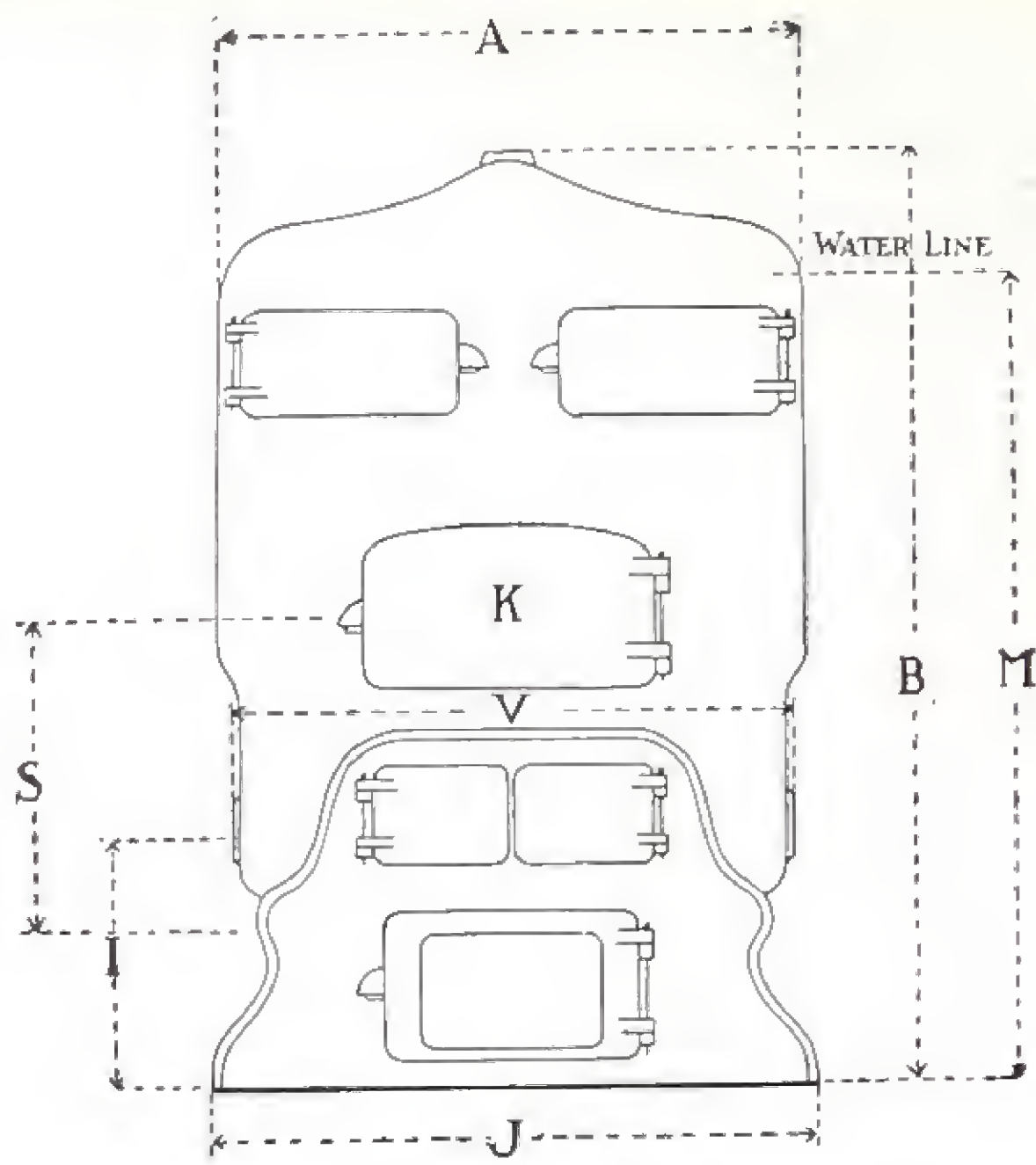


For Price List, see opposite page.
For Measurements, see pages 24 and 25.

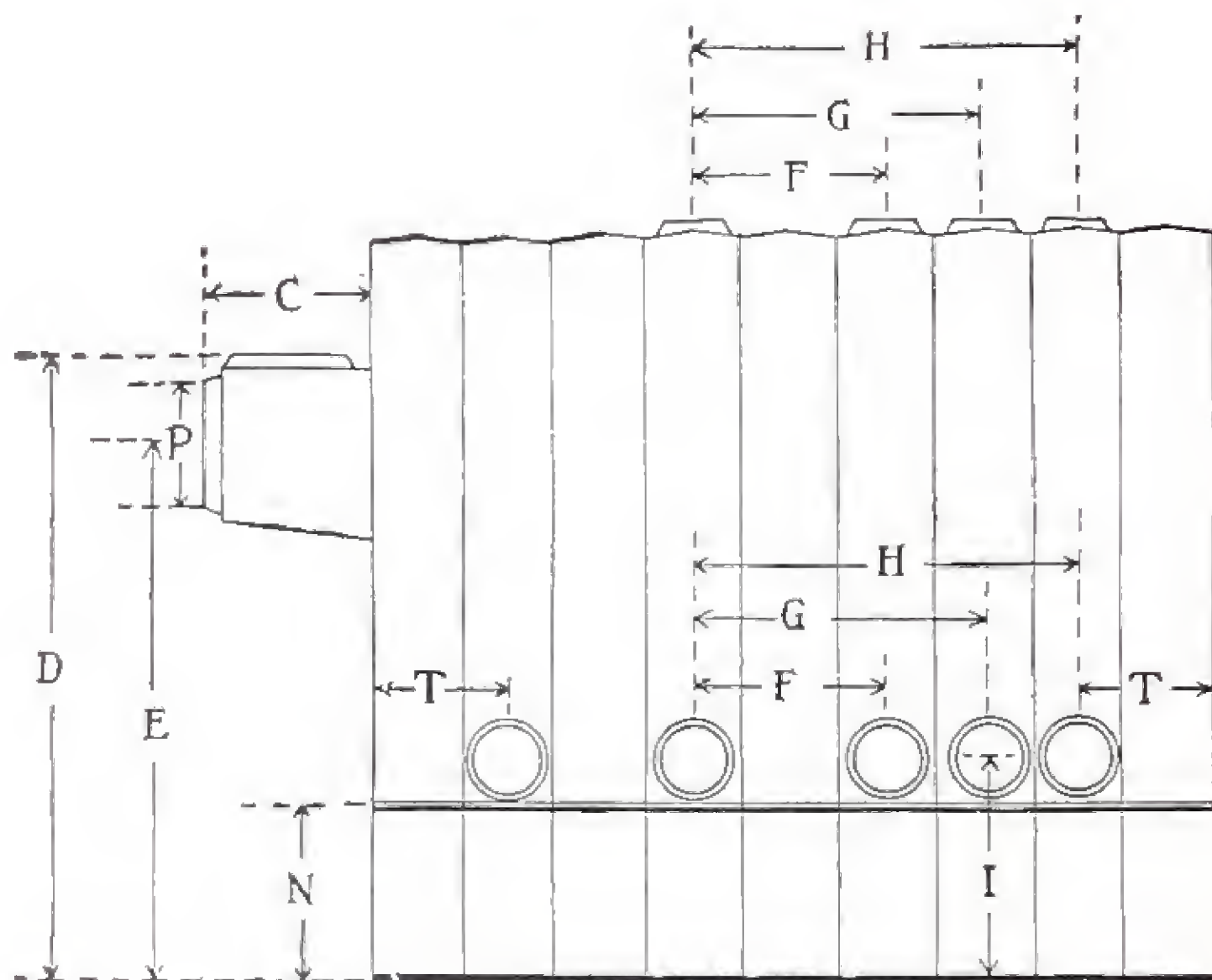
Ideal Sectional Steam Boilers—List Prices and Data

No. (Including Sections)	Length Total, In.	Height Total, In.	Width Total, In.	Water Line, In.	Grate Area Sq. Ft.	Average Fire Pot Sq. Ft.	Outlets	Smoke Pipe Inches	Ash Pit (Inside) Inches	Ratings (Note)	List Price
S-19-5	51 $\frac{3}{4}$	55 $\frac{3}{4}$	38	43 $\frac{3}{8}$	3.32	4.00	2-3"	9	20 x 29 $\frac{1}{8}$	600	\$312.50
S-19-6	58 $\frac{3}{8}$	55 $\frac{3}{4}$	38	43 $\frac{3}{8}$	4.15	5.00	2-3"	9	20 x 36 $\frac{5}{8}$	750	350.00
S-19-7	65	55 $\frac{3}{4}$	38	43 $\frac{3}{8}$	4.98	6.00	3-3"	9	20 x 43 $\frac{1}{8}$	900	400.00
S-22-5	53 $\frac{1}{4}$	59 $\frac{1}{2}$	42	46 $\frac{1}{4}$	4.08	4.84	2-4"	10	23 $\frac{1}{8}$ x 31 $\frac{1}{8}$	800	375.00
S-22-6	60 $\frac{1}{4}$	59 $\frac{1}{2}$	42	46 $\frac{1}{4}$	5.10	6.05	2-4"	10	23 $\frac{1}{8}$ x 38 $\frac{7}{8}$	1000	425.00
S-22-7	67 $\frac{1}{4}$	59 $\frac{1}{2}$	42	46 $\frac{1}{4}$	6.12	7.26	3-4"	10	23 $\frac{1}{8}$ x 45 $\frac{1}{8}$	1200	475.00
S-25-5	59 $\frac{1}{4}$	64 $\frac{1}{8}$	47 $\frac{1}{4}$	51	5.44	6.48	2-4"	11	28 x 35 $\frac{3}{8}$	1100	450.00
S-25-6	66 $\frac{7}{8}$	64 $\frac{1}{8}$	47 $\frac{1}{4}$	51	6.80	8.10	2-4"	11	28 x 42 $\frac{7}{8}$	1350	512.50
S-25-7	74 $\frac{1}{2}$	64 $\frac{1}{8}$	47 $\frac{1}{4}$	51	8.16	9.72	3-4"	11	28 x 50 $\frac{9}{16}$	1600	575.00
S-25-8	82 $\frac{1}{4}$	64 $\frac{1}{8}$	47 $\frac{1}{4}$	51	9.52	11.34	3-4"	11	28 x 58 $\frac{1}{4}$	1850	637.50
S-28-5	60	67 $\frac{1}{8}$	50 $\frac{1}{2}$	53 $\frac{3}{8}$	6.24	7.33	2-4"	12	30 $\frac{5}{8}$ x 35 $\frac{1}{2}$	1300	500.00
S-28-6	68	67 $\frac{1}{8}$	50 $\frac{1}{2}$	53 $\frac{3}{8}$	7.80	9.16	2-4"	12	30 $\frac{5}{8}$ x 43 $\frac{1}{2}$	1625	587.50
S-28-7	76	67 $\frac{1}{8}$	50 $\frac{1}{2}$	53 $\frac{3}{8}$	9.36	10.99	3-4"	12	30 $\frac{5}{8}$ x 51 $\frac{1}{2}$	1950	662.50
S-28-8	84	67 $\frac{1}{8}$	50 $\frac{1}{2}$	53 $\frac{3}{8}$	10.92	12.83	3-4"	12	30 $\frac{5}{8}$ x 59 $\frac{1}{2}$	2275	750.00
S-36-5	69 $\frac{3}{4}$	76 $\frac{1}{4}$	60	60 $\frac{3}{4}$	9.12	10.40	2-5"	15	38 $\frac{1}{8}$ x 40 $\frac{3}{4}$	2100	700.00
S-36-6	78 $\frac{7}{8}$	76 $\frac{1}{4}$	60	60 $\frac{3}{4}$	11.40	13.00	2-5"	15	38 $\frac{1}{8}$ x 49 $\frac{7}{8}$	2625	837.50
S-36-7	88	76 $\frac{1}{4}$	60	60 $\frac{3}{4}$	13.68	15.60	3-5"	15	38 $\frac{1}{8}$ x 59	3150	962.50
S-36-8	97 $\frac{1}{8}$	76 $\frac{1}{4}$	60	60 $\frac{3}{4}$	15.96	18.20	3-5"	15	38 $\frac{1}{8}$ x 68 $\frac{1}{8}$	3675	1100.00
S-36-9	106 $\frac{1}{4}$	76 $\frac{1}{4}$	60	60 $\frac{3}{4}$	18.24	20.80	4-5"	15	38 $\frac{1}{8}$ x 77 $\frac{1}{4}$	4200	1225.00
S-4806	85 $\frac{1}{2}$	81	69	69	18.00	18.75	2-6"	21	52 x 54 $\frac{1}{2}$	5275	1500.00
S-4807	96 $\frac{1}{4}$	81	69	69	21.60	22.50	3-6"	21	52 x 65 $\frac{1}{4}$	6300	1750.00
S-4808	107	81	69	69	25.20	26.50	3-6"	21	52 x 76	7325	2012.50
S-4809	117 $\frac{3}{4}$	81	69	69	25.20	26.50	3-6"	21	52 x 86 $\frac{3}{4}$	8350	2262.50
S-4810	128 $\frac{1}{2}$	81	69	69	28.80	30.00	3-6"	21	52 x 97 $\frac{1}{2}$	9375	2525.00

Additional measurements on pages 24 and 25. For each supply outlet on top of Boiler there are corresponding return inlets on both sides. Supply outlets on 48-inch boilers are located on Left Half. Center of outlets are 10 $\frac{1}{8}$ inches to left of center line of boiler. Return tappings on 48-inch Steam Boilers are 4 inches, and the two on the face of back section should be yoked together and used in preference to the other inlets. Do not bush flow-pipe outlets—connect all of them full size of the main. Above are hard-coal ratings—for soft coal requires one size larger in each case. See Note on ratings, page 32. For Wood Burning.—On special order the 19-inch Boilers are fitted with special grates and 10 $\frac{1}{4}$ x 18-inch fire-door; 22-inch and 25-inch, with 11 $\frac{1}{8}$ x 18-inch fire door; 28-inch, with 12 $\frac{1}{8}$ x 10 $\frac{7}{8}$ -inch fire door; 36-inch, with 13 $\frac{1}{8}$ x 24-inch fire door.



Front View



Sectional View

For details of measurements, see page 25.

IDEAL Boilers are so designed that any casting, whether round or square, may be taken through any door or opening which is not less than 2 feet 6 inches wide.

Ideal Sectional Boiler Measurements

Distance in inches on the outlines of IDEAL Sectional Boilers on page 24.

	19-in. Boilers		22-in. Boilers		25-in. Boilers	
	Water	Steam	Water	Steam	Water	Steam
A.....	31 $\frac{1}{4}$	32 $\frac{1}{4}$	35 $\frac{1}{4}$	36 $\frac{1}{4}$	40 $\frac{3}{8}$	41 $\frac{3}{8}$
B.....	50	50	53	53	57 $\frac{7}{8}$	57 $\frac{7}{8}$
†C.....	15 $\frac{5}{8}$	15 $\frac{5}{8}$	15 $\frac{1}{4}$	15 $\frac{1}{4}$	17 $\frac{1}{2}$	17 $\frac{1}{2}$
‡D.....	45 $\frac{1}{8}$	45 $\frac{1}{8}$	47 $\frac{3}{4}$	47 $\frac{3}{4}$	53	53
E.....	37 $\frac{3}{4}$	37 $\frac{3}{4}$	40 $\frac{1}{2}$	40 $\frac{1}{2}$	44 $\frac{1}{8}$	44 $\frac{1}{8}$
F.....	13 $\frac{1}{4}$	13 $\frac{1}{4}$	14 $\frac{1}{8}$	14 $\frac{1}{8}$	15 $\frac{3}{8}$	15 $\frac{3}{8}$
G.....	19 $\frac{7}{8}$	19 $\frac{7}{8}$	21 $\frac{1}{4}$	21 $\frac{1}{4}$	23 $\frac{1}{16}$	23 $\frac{1}{16}$
H.....	26 $\frac{1}{2}$	26 $\frac{1}{2}$	28 $\frac{1}{4}$	28 $\frac{1}{4}$	30 $\frac{3}{4}$	30 $\frac{3}{4}$
I.....	16	16	16 $\frac{3}{4}$	16 $\frac{3}{4}$	17 $\frac{3}{4}$	17 $\frac{3}{4}$
J.....	26	26	29 $\frac{1}{8}$	29 $\frac{1}{8}$	34 $\frac{1}{2}$	34 $\frac{1}{2}$
K.....	*8x14	*8x14	*8x14	*8x14	*9x18	*9x18
M.....	.....	43 $\frac{3}{8}$	.....	46 $\frac{1}{4}$	.....	51
N.....	9 $\frac{3}{8}$	9 $\frac{3}{8}$	9 $\frac{1}{2}$	9 $\frac{1}{2}$	9 $\frac{7}{8}$	9 $\frac{7}{8}$
P.....	9	9	10	10	11	11
S.....	12 $\frac{5}{8}$	12 $\frac{5}{8}$	12 $\frac{3}{8}$	12 $\frac{3}{8}$	14 $\frac{1}{4}$	14 $\frac{1}{4}$
T.....	8	8	8 $\frac{1}{2}$	8 $\frac{1}{2}$	9 $\frac{1}{8}$	9 $\frac{1}{8}$
V.....	29 $\frac{5}{8}$	29 $\frac{5}{8}$	33 $\frac{9}{16}$	33 $\frac{9}{16}$	39 $\frac{3}{8}$	39 $\frac{3}{8}$

	28-in. Boilers		36-in. Boilers		48-in. Boilers	
	Water	Steam	Water	Steam	Water	Steam
A.....	43 $\frac{1}{2}$	44 $\frac{1}{2}$	53 $\frac{1}{4}$	54 $\frac{1}{4}$	69	69
B.....	60 $\frac{5}{8}$	60 $\frac{5}{8}$	69 $\frac{1}{8}$	69 $\frac{1}{8}$	81	81
†C.....	18 $\frac{1}{8}$	18 $\frac{1}{8}$	21 $\frac{11}{16}$	21 $\frac{11}{16}$	27 $\frac{3}{4}$	27 $\frac{3}{4}$
‡D.....	55 $\frac{7}{8}$	55 $\frac{7}{8}$	63 $\frac{3}{8}$	63 $\frac{3}{8}$	73 $\frac{1}{8}$	73 $\frac{1}{8}$
E.....	46 $\frac{1}{4}$	46 $\frac{1}{4}$	52 $\frac{9}{16}$	52 $\frac{9}{16}$	59 $\frac{1}{2}$	59 $\frac{1}{2}$
F.....	16	16	18 $\frac{1}{4}$	18 $\frac{1}{4}$	21 $\frac{1}{2}$	21 $\frac{1}{2}$
G.....	24	24	27 $\frac{3}{8}$	27 $\frac{3}{8}$	32 $\frac{1}{4}$	32 $\frac{1}{4}$
H.....	32	32	36 $\frac{1}{2}$	36 $\frac{1}{2}$	43	43
I.....	17 $\frac{7}{8}$	17 $\frac{7}{8}$	18 $\frac{7}{16}$	18 $\frac{7}{16}$	22 $\frac{3}{8}$	22 $\frac{3}{8}$
J.....	37 $\frac{1}{8}$	37 $\frac{1}{8}$	45 $\frac{7}{16}$	45 $\frac{7}{16}$	58 $\frac{3}{8}$	58 $\frac{3}{8}$
K.....	*9x18	*9x18	*10x20	*10x20	11x19	11x19
M.....	.....	53 $\frac{3}{8}$	.....	60 $\frac{3}{4}$	.....	69
N.....	10	10	10 $\frac{13}{16}$	10 $\frac{13}{16}$	14 $\frac{11}{16}$	14 $\frac{11}{16}$
P.....	12	12	15	15	21	21
S.....	14 $\frac{1}{4}$	14 $\frac{1}{4}$	15 $\frac{5}{8}$	15 $\frac{5}{8}$	17 $\frac{3}{4}$	17 $\frac{3}{4}$
T.....	9 $\frac{1}{2}$	9 $\frac{1}{2}$	10 $\frac{7}{8}$	10 $\frac{7}{8}$	12 $\frac{3}{4}$	.....
V.....	41 $\frac{13}{16}$	41 $\frac{13}{16}$	52 $\frac{5}{8}$	52 $\frac{5}{8}$	64 $\frac{11}{16}$	64 $\frac{11}{16}$

†Measured without Smoke-Hood Cover.

‡Measured with Smoke-Hood Cover on.

*For Wood, Feed Door K in 19-inch Boilers is 10 $\frac{1}{4}$ x 18 inches; in 22-inch Boilers is 11 $\frac{1}{8}$ x 18 inches; in 25-inch Boilers is 11 $\frac{1}{8}$ x 18 inches; in 28-inch Boilers is 12 $\frac{1}{4}$ x 19 $\frac{7}{8}$ inches; in 36-inch Boilers is 13 $\frac{1}{8}$ x 24 inches.

Do not bush the flow pipe outlets of Steam Boilers; connect all of them full size to the main.

Safford-Triumph-Mogul Water and Laundry Heaters



H-32

Typical of H-12 and H-22.

H-10, H-20 and H-30 do not have dome sections.



York or Bronco



Toro

For data and list prices, see page 27.
For measurements, see pages 28, 29, 30, 31.

Safford-Triumph-Mogul Water and Laundry Heaters

List Prices and Data

Pattern Name	No.	Nom. Diam. Grate Inches	Grate	Size Outlets Inches	Cap- acity in Gallons	List Price
Bronco Laundry...	No.-8	8	Slide-centre	1-1	40	\$35.00
" " ..	No.-9	8	"	1-1	40	36.50
York with Ashpan.	No.-8	8	"	1-1	40	38.00
" " ..	No.-9	8	"	1-1	40	40.00
Toro Laundry....	8-D	10	"	1-1½	100	60.00
" "	9-D	10	"	1-1½	100	63.00
Triumph-Mogul, with Base Plate and Legs.....	T-00	10	"	1-1½	60	45.00
"	T-0	10	"	1-1½	90	63.00
"	T-101	10	"	1-1½	140	73.00
Triumph-Mogul....	H-10	12	Rocking	3-1½	190	120.00
	H-12	12	"	3-1½	210	143.00
	H-20	15	"	3-2	380	164.00
	H-22	15	"	3-2	425	203.00
	H-30	18	"	3-2	600	210.00
	H-32	18	"	3-2	660	249.00

Nos. H-10, H-20, H-30 are without dome sections.

Nos. H-12, H-22, H-32 are equipped with dome sections.

Additional measurements, page 31.

Size of top No. 8 Bronco, 14 x 20.

Size of top No. 9 Bronco, 15 x 21½.

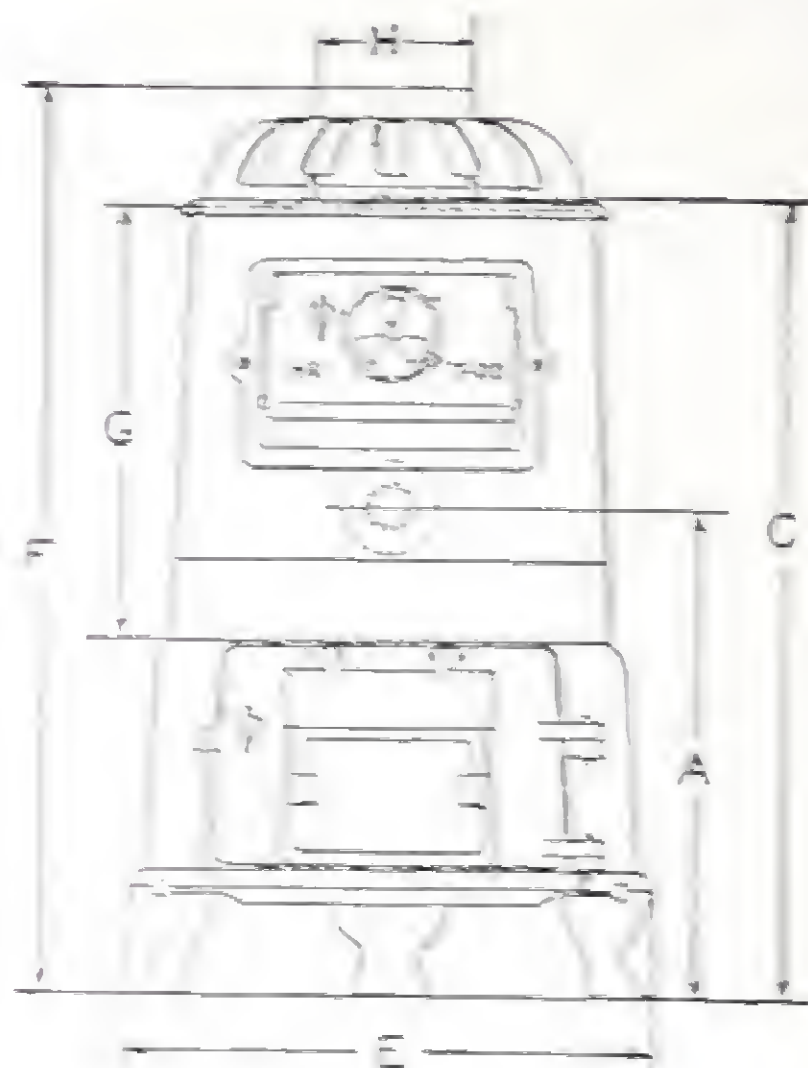
Size of top No. 8 York, 14 x 20.

Size of top No. 9 York, 15 x 21½.

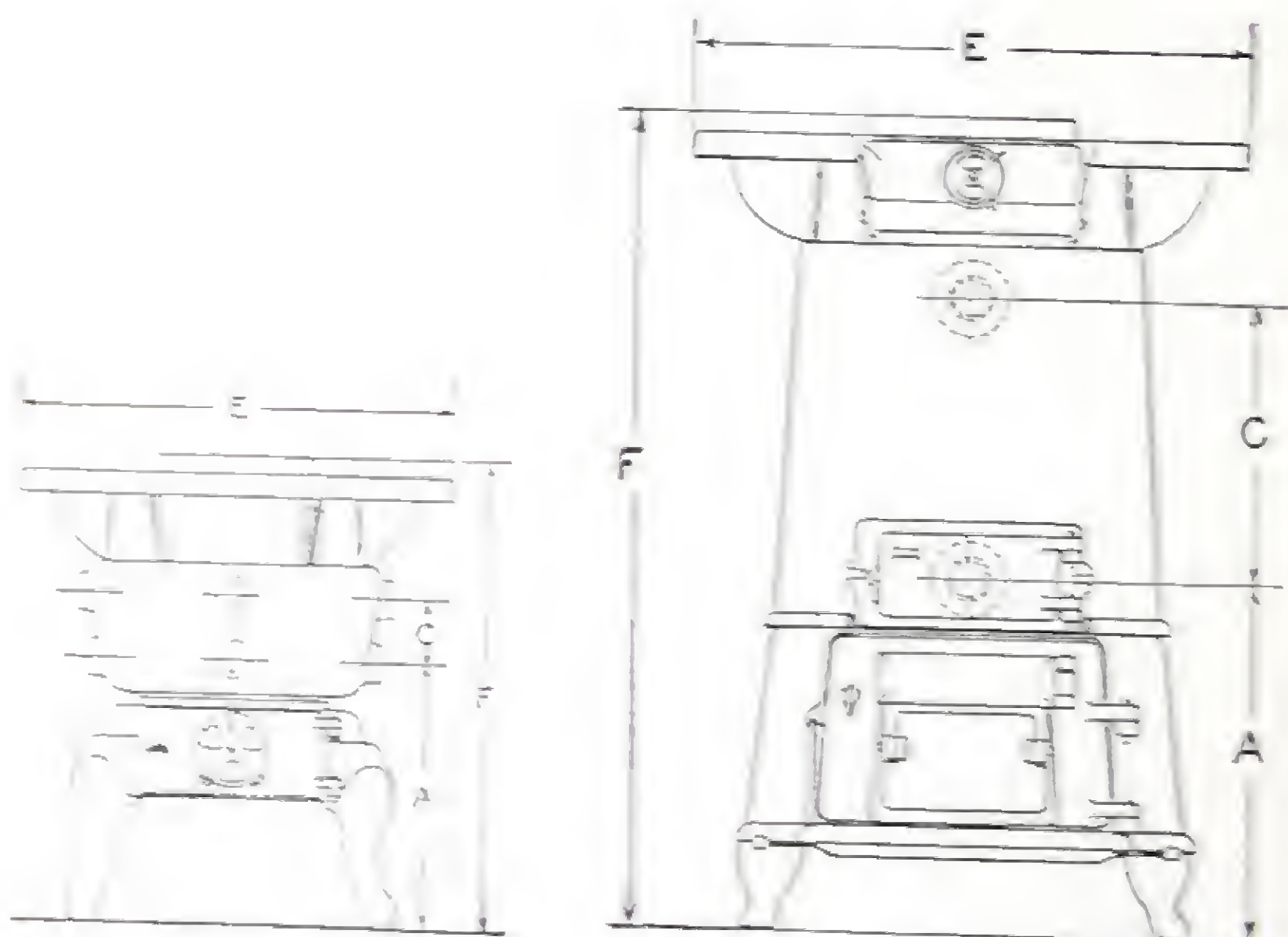
Size of top Toro No. 8-D, 14 x 20.

Size of top Toro No. 9-D, 15 x 21½.

Safford-Triumph-Mogul Water and Laundry Heaters



T-60



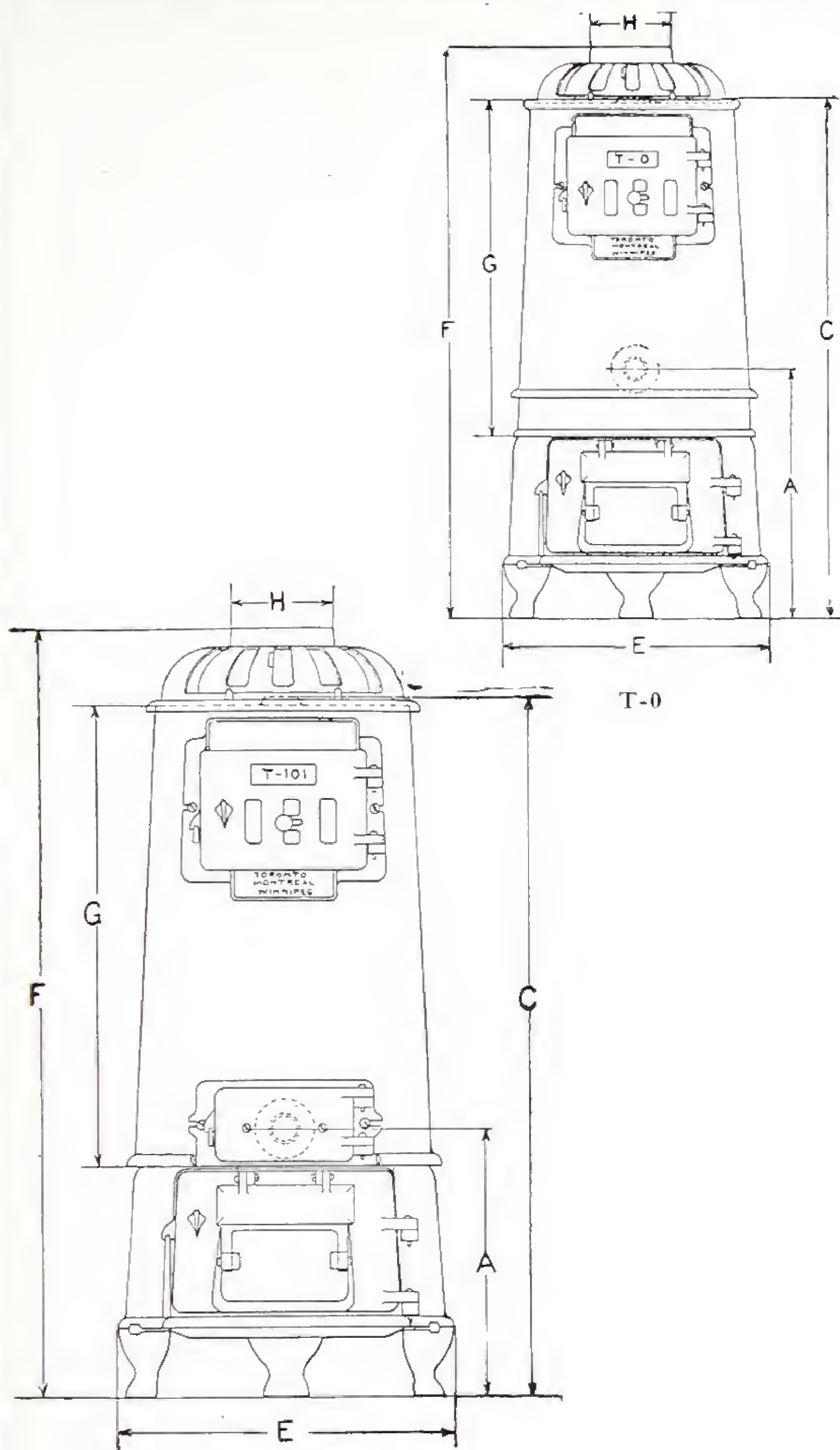
Bronco

Toro

York same as Bronco, except with large ashpan.

For Measurements, see page 31.

Safford-Triumph-Mogul Water Heaters

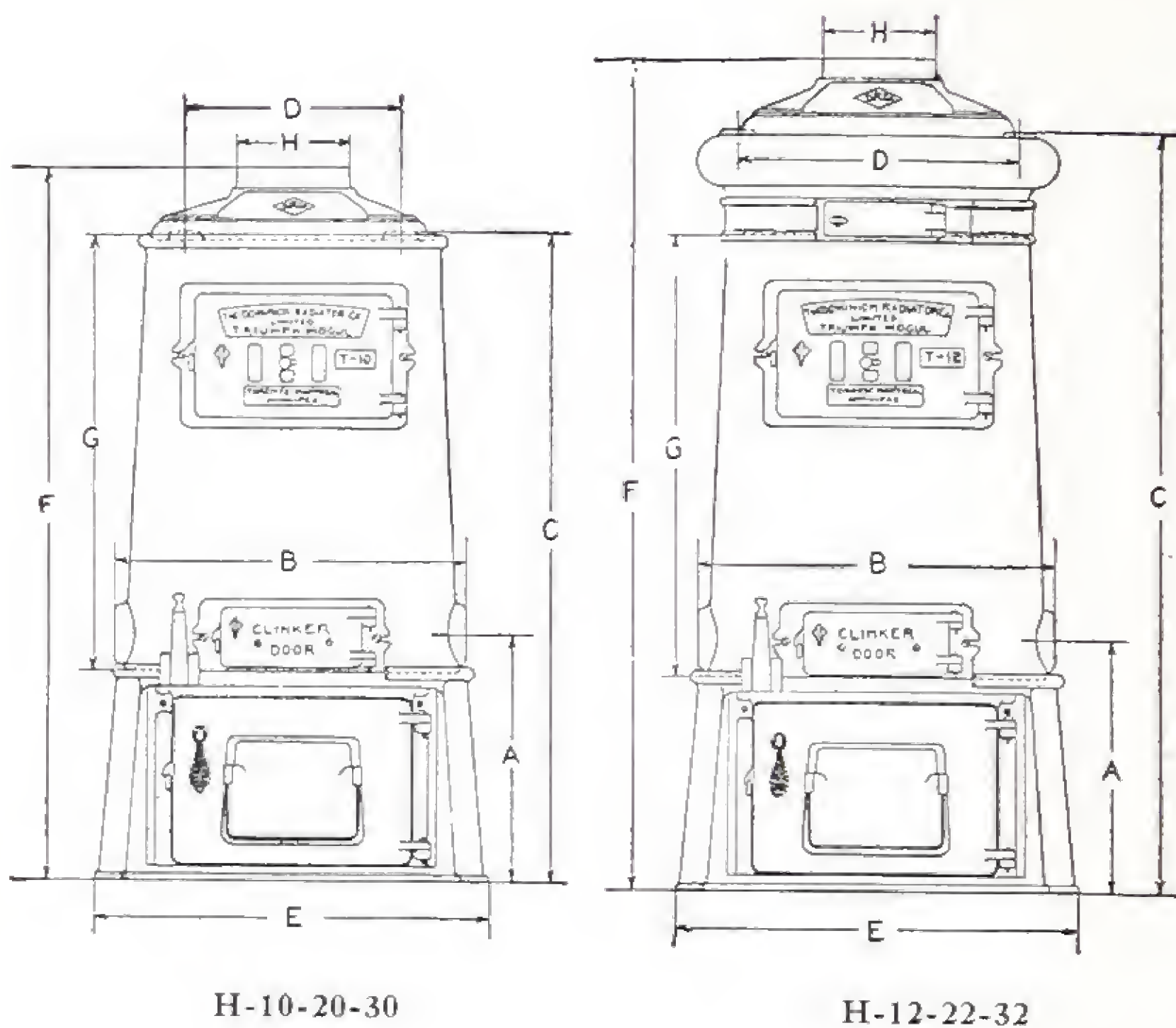


T-0

T-101

For Measurements, see page 31.

Safford-Triumph-Mogul Water Heaters



For Measurements, see page 31.

Safford-Triumph-Mogul Water and Laundry Heaters

Pattern	No.	A	B	C	D	E	F	G	H
Bronco.....	8	12 $\frac{3}{4}$	.....	2 $\frac{3}{4}$	.....	20	21 $\frac{1}{2}$	.....	.....
"	9	12 $\frac{3}{4}$	.....	2 $\frac{3}{4}$	.....	21 $\frac{1}{2}$	21 $\frac{1}{2}$	.....	.....
York	8	18 $\frac{3}{8}$	.....	2 $\frac{3}{4}$	.....	20	22 $\frac{1}{2}$	.....	.....
"	9	18 $\frac{3}{8}$	.....	2 $\frac{3}{4}$	.....	21 $\frac{1}{2}$	22 $\frac{1}{2}$	.....	.....
Toro Laundry.....	8-D	12 $\frac{1}{2}$	.....	10 $\frac{1}{4}$	.....	20	30	...	
"	9-D	12 $\frac{1}{2}$	.....	10 $\frac{1}{4}$	.....	21 $\frac{1}{2}$	30	.....	.....
Triumph Mogul...	T-00	15	.....	24 $\frac{1}{2}$	.....	18	28 $\frac{1}{2}$	13 $\frac{1}{2}$	5
" " ..	T-0	15	.....	31 $\frac{1}{2}$	.....	18	35	20 $\frac{1}{2}$	5
" " ..	T-101	12 $\frac{3}{4}$	.....	33	.....	18	37	22	5
" " ..	H-10	13 $\frac{1}{2}$	18 $\frac{1}{2}$	36 $\frac{3}{4}$	12	21	41 $\frac{1}{4}$	25 $\frac{1}{4}$	6
" " ..	H-12	13 $\frac{1}{2}$	18 $\frac{1}{2}$	41 $\frac{1}{2}$	14 $\frac{1}{2}$	21	46 $\frac{3}{4}$	25 $\frac{1}{4}$	6
" " ..	H-20	13 $\frac{3}{4}$	21	41 $\frac{1}{2}$	14 $\frac{3}{4}$	23	46 $\frac{1}{4}$	29 $\frac{1}{2}$	6
" " ..	H-22	13 $\frac{3}{4}$	21	47 $\frac{1}{2}$	16 $\frac{3}{4}$	23	52 $\frac{1}{4}$	29 $\frac{1}{2}$	6
" " ..	H-30	13 $\frac{3}{4}$	24 $\frac{1}{2}$	41 $\frac{1}{2}$	17	26	46 $\frac{1}{2}$	29 $\frac{1}{2}$	7
" " ..	H-32	13 $\frac{3}{4}$	24 $\frac{1}{2}$	48	17 $\frac{1}{2}$	26	52 $\frac{1}{2}$	29 $\frac{1}{2}$	7

Fire door opening, H-10—H-12, 8 $\frac{1}{2}$ " x 10". H-20-22-30-32
10 $\frac{3}{4}$ " x 10".

See pages 28, 29, 30.

Ideal Boiler Ratings

Fuel Basis for Ratings

Ideal Arco, Ideal Sectional and Mogul Boilers will burn any kind of fuel. The Ratings are based on burning Anthracite Coal, with attention every eight to ten hours. Inferior coals may be burned to good advantage, but it will naturally follow that the Boiler will require more attention when the cheaper grades of fuel are used. The firing period much depends on the outside temperature as well as the grade of fuel as to the number of times the Boiler has to be fired during 24 hours.

Rating Conditions

The ratings for Ideal Sectional Water and Steam Boilers, and Ideal Arco Round Steam Boilers provide that all piping (mains and risers, flow and return), and Domestic Heater in addition to the direct radiation to be used, shall be figured as radiating surface in estimating the size of the Boiler required.

These ratings are for direct radiation. When any other heating surface than direct radiation is to be supplied, increased Boiler capacity must be figured according to the demand in each case.

When indirect radiation is to be used not less than 75 per cent. increase over direct radiation should be figured in determining size of Boiler required.

Arco and Mogul Round Water Boiler

The ratings on Arco and Mogul Water Boilers are based on their capacity to maintain a temperature of 170 degrees in the water in the Radiators throughout a period of eight hours on one firing. It is of course assumed that sufficient radiating surface has been allowed in the various rooms to maintain a temperature of 70 degrees Fahrenheit during zero weather. Under more severe climatic conditions a reasonable allowance should be made to provide for the additional tax imposed on the Boiler. A liberal allowance has been made for mains, returns, risers, etc., so that the ratings shown indicate the actual capacity of these Boilers in direct radiation.

Guarantee and Coverings

IDEAL Boilers are guaranteed only to the extent of furnishing new castings by freight for any found defective in manufacture. On account of the varying conditions surrounding their installation, we do not guarantee our Boilers otherwise.

Both on account of increased efficiency and greater economy, we recommend that all Boilers be thoroughly protected by a substantial covering of asbestos. See page 123.

Information Required for Ordering Boilers and Boiler Repairs

State plainly the catalogue, name, number and rated capacity of Boiler required; also number of square feet of Direct and if any, Direct-Indirect or Hot Blast Radiation, that Boiler is to take care of.

When ordering repair parts for any of the Boilers listed in this catalogue, or for that matter for any other boiler, first give the size, number and catalogue name, or name on front of the Boiler. Next give the factory or serial number. This is usually found on the little brass plate on one of the front doors. It is well to mention all letters or numbers in order in which they appear on part required. In case it is impossible to give any of the above requirements, send a sketch having dimensions marked on it, and a detailed description of part wanted. It will also be well to mention year number where same appears on front of Boiler, and if possible, the year in which the Boiler was installed, or better still, the date and number of the invoice pertaining to it. Especially mention whether the boiler is Round or Square. Where Round, if it is a grate bar that is required, mention which one, numbering from the front, and whether it has a lug or hook on it. If it is a section that is required, mention which one, numbering from the fire-pot. If it is a door or door-frame, especially mention which one.

Where section is required for a Sectional Boiler, mention which one, numbering from the front, and whether same has any tapped openings, and the size of the tapping, and whether the tapping is required or not. Where it is a grate bar, mention which one, numbering from the front, and whether it shakes on the left-hand side or the right-hand side.

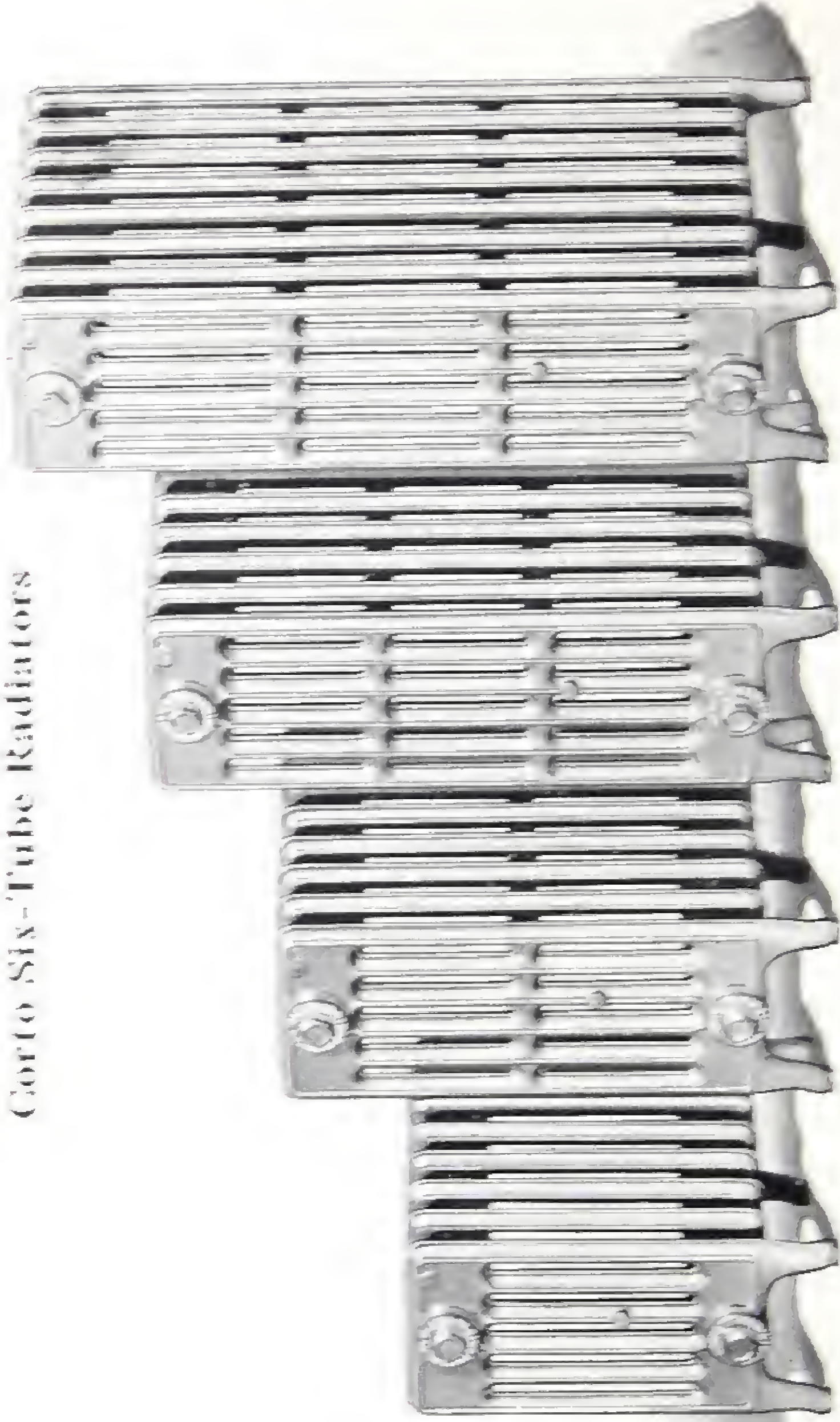
Where a Boiler has no serial number on the little brass plate, please mention the fact that it has no serial number.

When ordering repairs for a Boiler, send order direct to the Office or Branch from which Boiler was purchased.

With these particulars we will be able to ship repairs promptly.

Give full shipping instructions.

Cotto Six-Tube Radiators



Stocks carried at Toronto, Montreal and Woodbury.

See page 34 for List Price.

Corto Six-Tube Radiators

For Steam or Water

No. of Sections	* Length 2½" per Section	HEATING SURFACE			
		38" Height	32" Height	26" Height	20" Height
		6 Sq. Ft. per Section	5 Sq. Ft. per Section	4 Sq. Ft. per Section	3 Sq. Ft. per Section
2	5	12	10	8	6
3	7½	18	15	12	9
4	10	24	20	16	12
5	12½	30	25	20	15
6	15	36	30	24	18
7	17½	42	35	28	21
8	20	48	40	32	24
9	22½	54	45	36	27
10	25	60	50	40	30
11	27½	66	55	44	33
12	30	72	60	48	36
13	32½	78	65	52	39
14	35	84	70	56	42
15	37½	90	75	60	45
16	40	96	80	64	48
17	42½	102	85	68	51
18	45	108	90	72	54
19	47½	114	95	76	57
20	50	120	100	80	60
21	52½	126	105	84	63
22	55	132	110	88	66
23	57½	138	115	92	69
24	60	144	120	96	72
25	62½	150	125	100	75

Made with twin hub and single tappings.

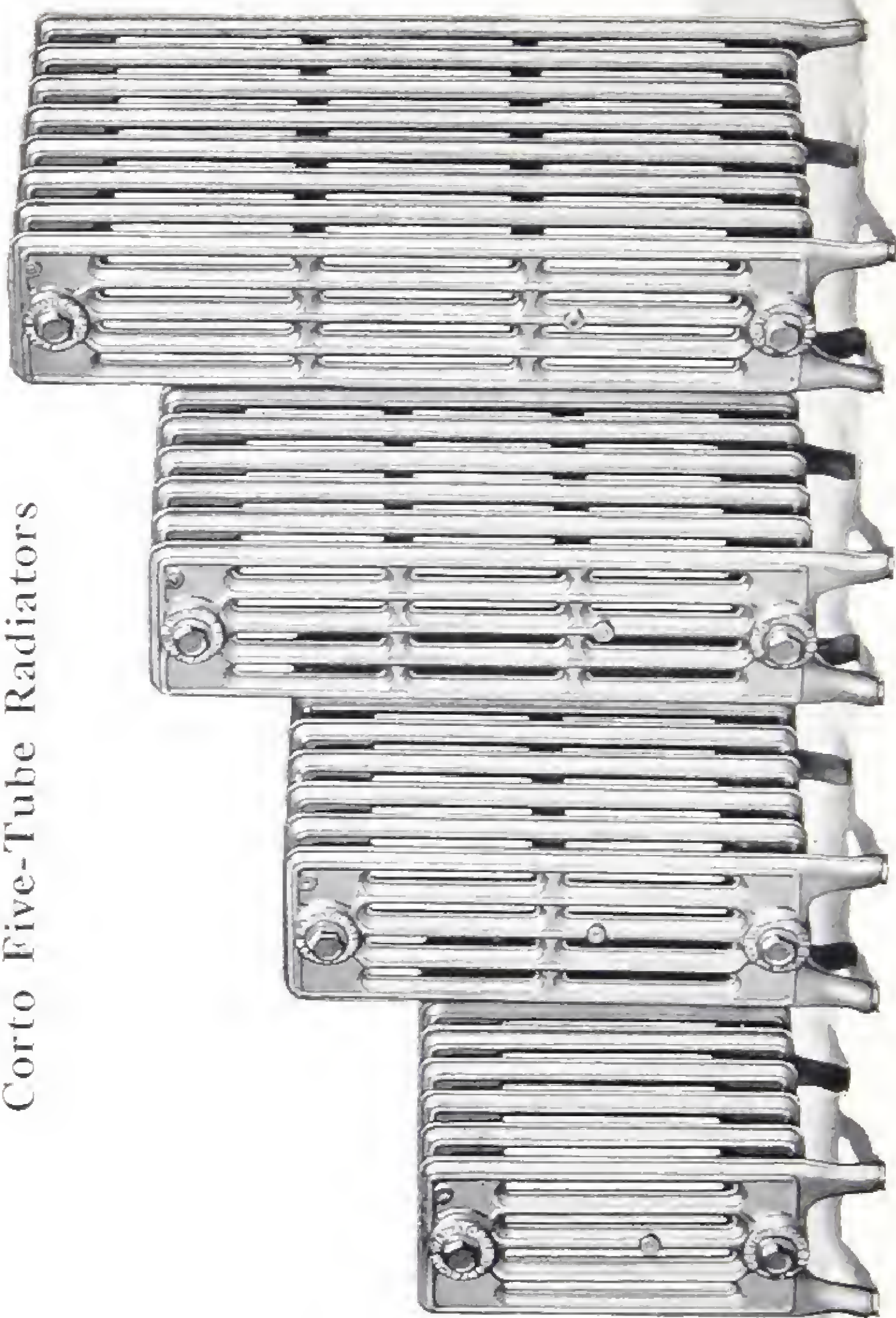
CONNECTIONS.—Both Steam or Water—Extra heavy 1½-inch right and left threaded nipples at top and bottom.

Corto Radiators are furnished, upon special order, with 6-inch legs.

*In estimating length of Radiator, allow ⅝-inch for each bushing or plug.

For measurements, see pages 44 and 45.

Corto Five-Tube Radiators



Stocks carried at Toronto, Montreal and Winnipeg.

See page 86 for List Prices.

Corto Five-Tube Radiators

For Steam or Water

No. of Sections	* Length 2 1/2" per Section	HEATING SURFACE			
		38" Height	32" Height	26" Height	20" Height
		5 Sq. Ft. per Section	4 1/3 Sq. Ft. per Section	3 1/2 Sq. Ft. per Section	2 2/3 Sq. Ft. per Section
2	5	10	8 2/3	7	5 1/3
3	7 1/2	15	13	10 1/2	8
4	10	20	17 1/3	14	10 2/3
5	12 1/2	25	21 2/3	17 1/2	13 1/3
6	15	30	26	21	16
7	17 1/2	35	30 1/3	24 1/2	18 2/3
8	20	40	34 2/3	28	21 1/3
9	22 1/2	45	39	31 1/2	24
10	25	50	43 1/3	35	26 2/3
11	27 1/2	55	47 2/3	38 1/2	29 1/3
12	30	60	52	42	32
13	32 1/2	65	56 1/3	45 1/2	34 2/3
14	35	70	60 2/3	49	37 1/3
15	37 1/2	75	65	52 1/2	40
16	40	80	69 1/3	56	42 2/3
17	42 1/2	85	73 2/3	59 1/2	45 1/3
18	45	90	78	63	48
19	47 1/2	95	82 1/3	66 1/2	50 2/3
20	50	100	86 2/3	70	53 1/3
21	52 1/2	105	91	73 1/2	56
22	55	110	95 1/3	77	58 2/3
23	57 1/2	115	99 2/3	80 1/2	61 1/3
24	60	120	104	84	64
25	62 1/2	125	108 1/3	87 1/2	66 2/3

Made with twin hub and single tappings.

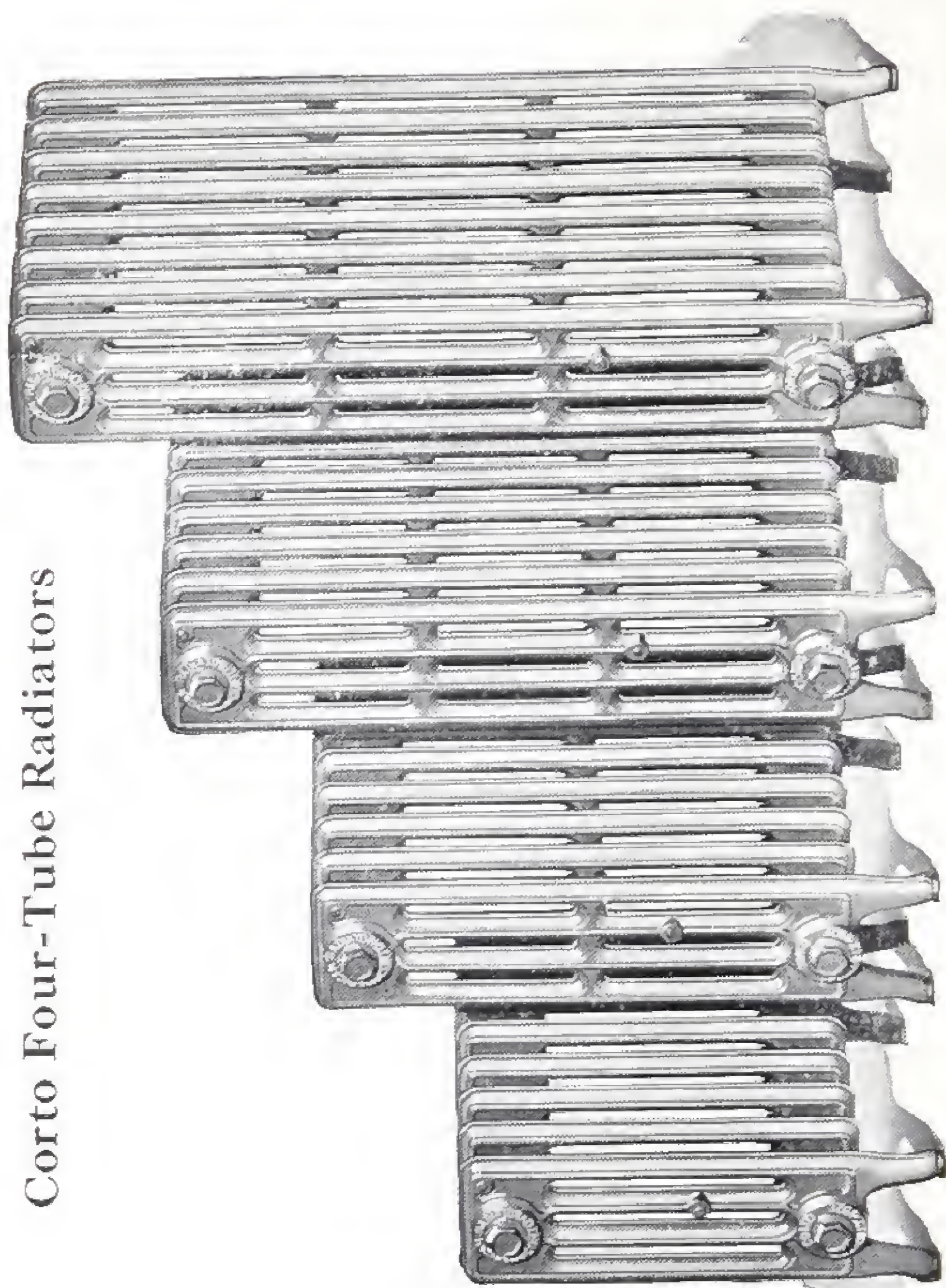
CONNECTIONS.—Both Steam or Water—Extra heavy 1 1/2-inch right and left threaded nipples at top and bottom.

Corto Radiators are furnished, upon special order, with 6-inch legs.

*In estimating length of Radiator, allow 5/8-inch for each bushing or plug.

For measurements see pages 44 and 45.

Corto Four-Tube Radiators



Stocks carried at Toronto, Montreal and Winnipeg.
See page 86 for List Prices.

Corto Four-Tube Radiators

For Steam or Water

No. of Sections	* Length 2 1/2" per Section	HEATING SURFACE			
		38" Height	32" Height	26" Height	20" Height
		4 1/4 Sq. Ft. per Section	3 1/2 Sq. Ft. per Section	2 3/4 Sq. Ft. per Section	2 1/4 Sq. Ft. per Section
2	5	8 1/2	7	5 1/2	4 1/2
3	7 1/2	12 3/4	10 1/2	8 1/4	6 3/4
4	10	17	14	11	9
5	12 1/2	21 1/4	17 1/2	13 3/4	11 1/4
6	15	25 1/2	21	16 1/2	13 1/2
7	17 1/2	29 3/4	24 1/2	19 1/4	15 3/4
8	20	34	28	22	18
9	22 1/2	38 1/4	31 1/2	24 3/4	20 1/4
10	25	42 1/2	35	27 1/2	22 1/2
11	27 1/2	46 3/4	38 1/2	30 1/4	24 3/4
12	30	51	42	33	27
13	32 1/2	55 1/4	45 1/2	35 3/4	29 1/4
14	35	59 1/2	49	38 1/2	31 1/2
15	37 1/2	63 3/4	52 1/2	41 1/4	33 3/4
16	40	68	56	44	36
17	42 1/2	72 1/4	59 1/2	46 3/4	38 1/4
18	45	76 1/2	63	49 1/2	40 1/2
19	47 1/2	80 3/4	66 1/2	52 1/4	42 3/4
20	50	85	70	55	45
21	52 1/2	89 1/4	73 1/2	57 3/4	47 1/4
22	55	93 1/2	77	60 1/2	49 1/2
23	57 1/2	97 3/4	80 1/2	63 1/4	51 3/4
24	60	102	84	66	54
25	62 1/2	106 1/4	87 1/2	68 3/4	56 1/4

Made with twin hub and singleappings.

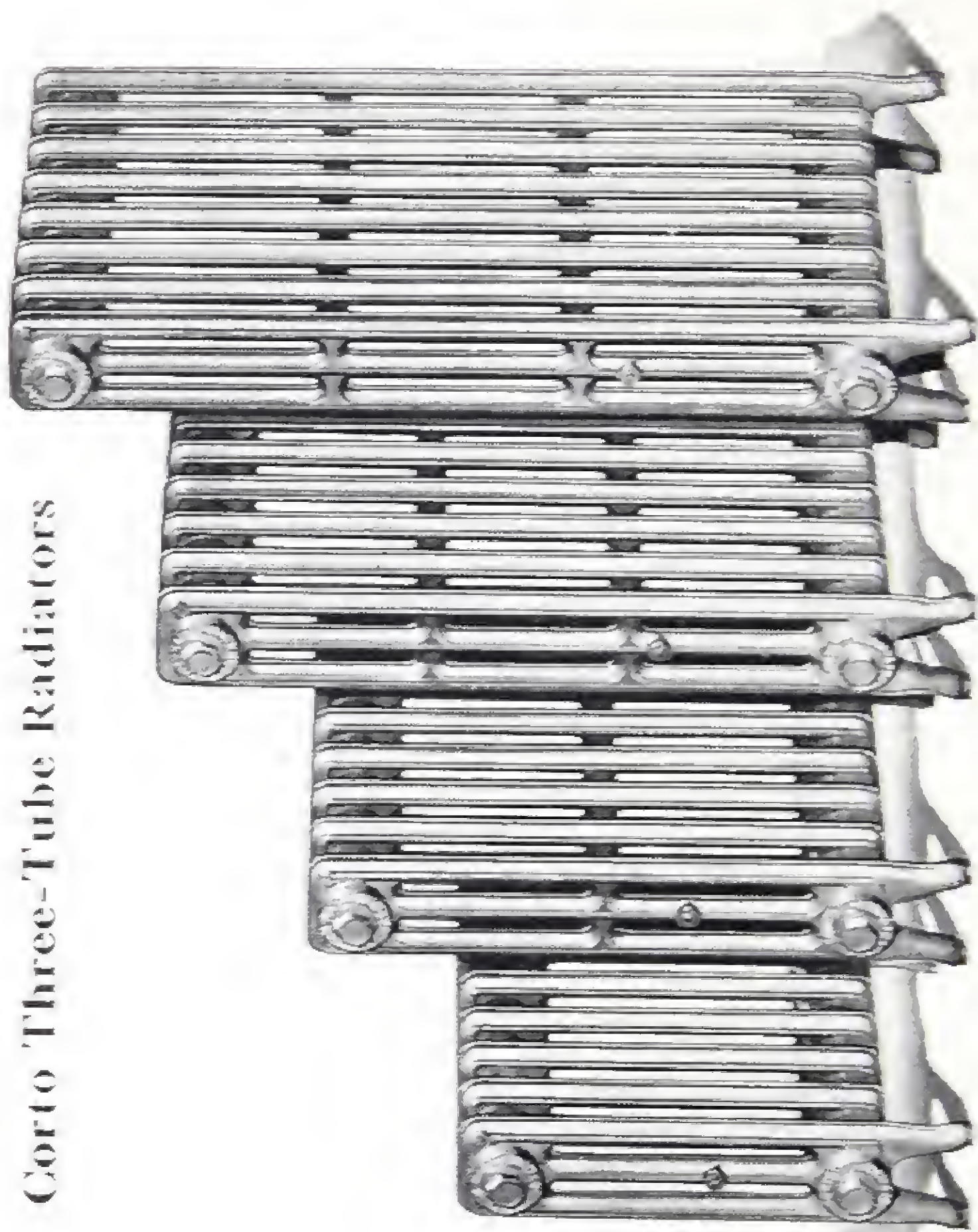
CONNECTIONS.—Both Steam or Water—Extra heavy 1 1/2-inch right and left threaded nipples at top and bottom.

Corto Radiators are furnished, upon special order, with 6-inch legs.

*In estimating length of Radiator, allow 5/8-inch for each bushing or plug.

For measurements see pages 44 and 45.

Corto 'Three-Tube Radiators



Stocks carried at Toronto, Montreal and Winnipeg.

See page 84 for List Prices.

Corto Three-Tube Radiators

For Steam or Water

No. of Sections	* Length 2 1/2" per Section	HEATING SURFACE			
		38" Height	32" Height	26" Height	20" Height
		3 1/2 Sq. Ft. per Section	3 Sq. Ft. per Section	2 1/3 Sq. Ft. per Section	1 3/4 Sq. Ft. per Section
2	5	7	6	4 2/3	3 1/2
3	7 1/2	10 1/2	9	7	5 1/4
4	10	14	12	9 1/3	7
5	12 1/2	17 1/2	15	11 2/3	8 3/4
6	15	21	18	14	10 1/2
7	17 1/2	24 1/2	21	16 1/3	12 1/4
8	20	28	24	18 2/3	14
9	22 1/2	31 1/2	27	21	15 3/4
10	25	35	30	23 1/3	17 1/2
11	27 1/2	38 1/2	33	25 2/3	19 1/4
12	30	42	36	28	21
13	32 1/2	45 1/2	39	30 1/3	22 3/4
14	35	49	42	32 2/3	24 1/2
15	37 1/2	52 1/2	45	35	26 1/4
16	40	56	48	37 1/3	28
17	42 1/2	59 1/2	51	39 2/3	29 3/4
18	45	63	54	42	31 1/2
19	47 1/2	66 1/2	57	44 1/3	33 1/4
20	50	70	60	46 2/3	35
21	52 1/2	73 1/2	63	49	36 3/4
22	55	77	66	51 1/3	38 1/2
23	57 1/2	80 1/2	69	53 2/3	40 1/4
24	60	84	72	56	42
25	62 1/2	87 1/2	75	58 1/3	43 3/4

Made with twin hub and single tappings.

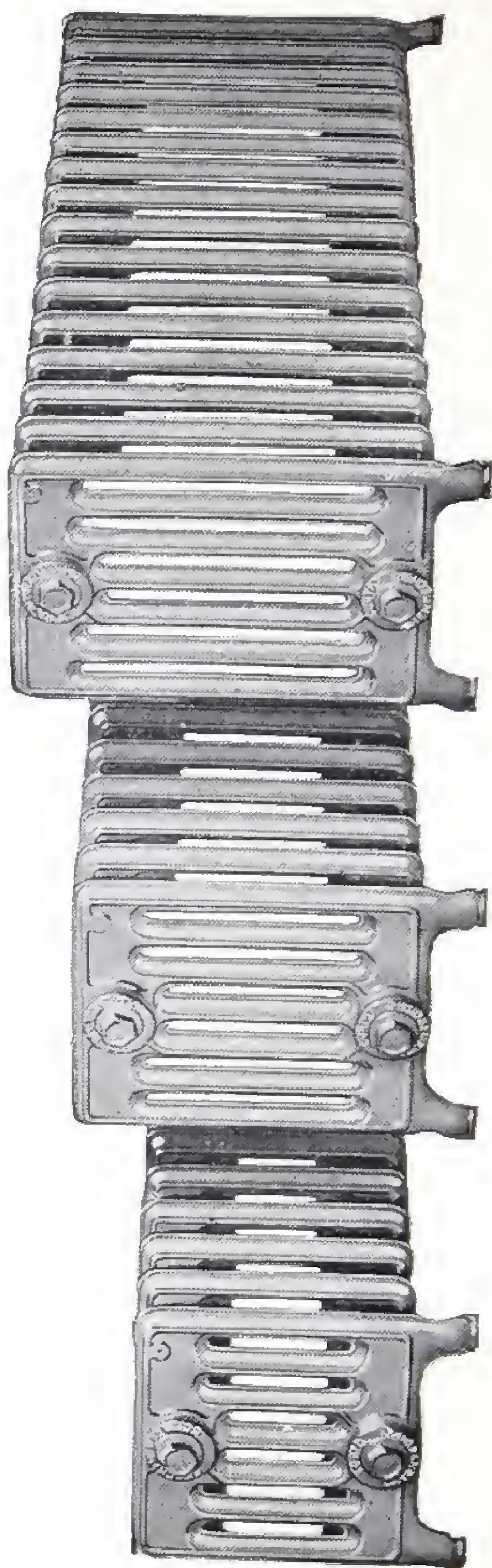
CONNECTIONS.—Both Steam or Water—Extra heavy 1 1/2-inch right and left threaded nipples at top and bottom.

Corto Radiators are furnished, upon special order, with 6-inch legs.

*In estimating length of Radiator, allow 5/8-inch for each bushing or plug.

For measurements, see pages 44 and 45.

Corto Seven-Tube Window Radiators



Stocks carried at Toronto, Montreal and Winnipeg.
See page 86 for List Prices.

Corto Seven-Tube Window Radiators

For Steam or Water

No. of Sections	* Length 2½ in. per Section	HEATING SURFACE		
		20" Height	17" Height	14" Height
		3⅔ Sq. Ft. per Section	3 Sq. Ft. per Section	2½ Sq. Ft. per Section
2	5	7 ⅓	6	5
3	7 ½	11	9	7 ½
4	10	14 ⅔	12	10
5	12 ½	18 ⅓	15	12 ½
6	15	22	18	15
7	17 ½	25 ⅔	21	17 ½
8	20	29 ⅓	24	20
9	22 ½	33	27	22 ½
10	25	36 ⅔	30	25
11	27 ½	40 ⅓	33	27 ½
12	30	44	36	30
13	32 ½	47 ⅔	39	32 ½
14	35	51 ⅓	42	35
15	37 ½	55	45	37 ½
16	40	58 ⅔	48	40
17	42 ½	62 ⅓	51	42 ½
18	45	66	54	45
19	47 ½	69 ⅔	57	47 ½
20	50	73 ⅓	60	50
21	52 ½	77	63	52 ½
22	55	80 ⅔	66	55
23	57 ½	84 ⅓	69	57 ½
24	60	88	72	60
25	62 ½	91 ⅔	75	62 ½

Made with twin hub and single tappings.

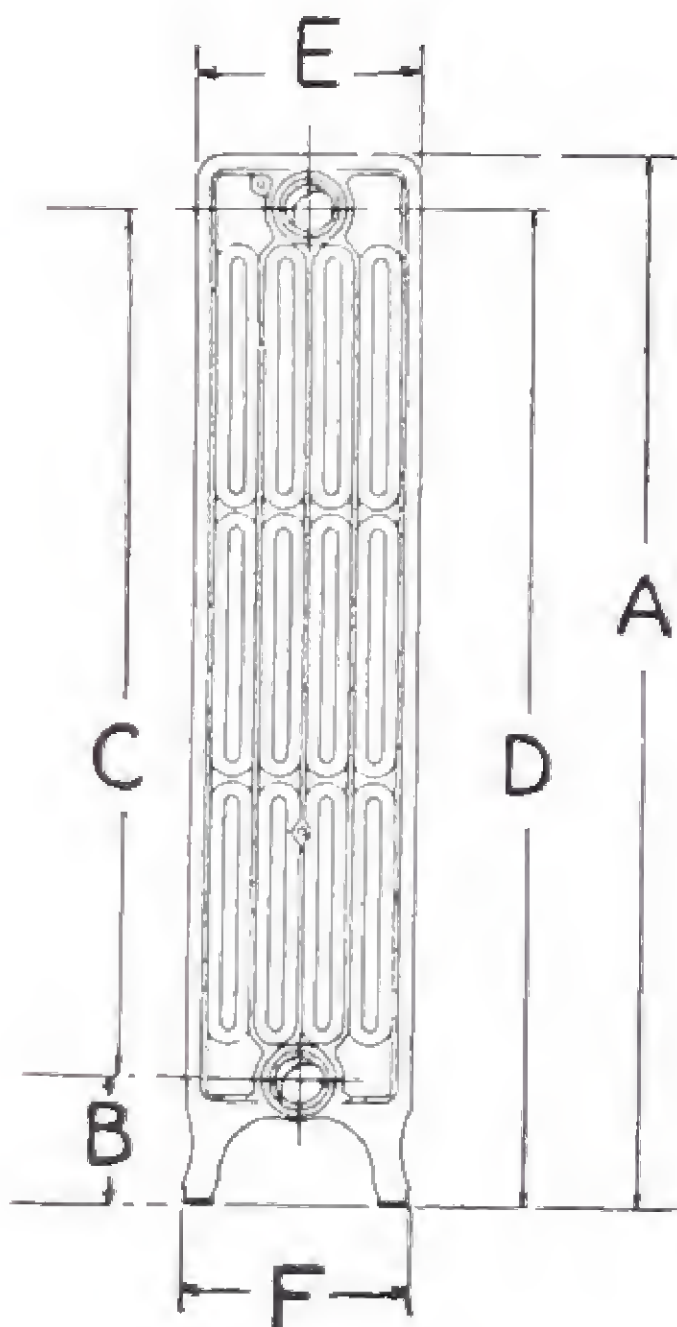
CONNECTIONS.—Both Steam or Water—Extra heavy 1½-inch right and left threaded nipples at top and bottom.

*In estimating length of Radiator, allow ⅝-inch for each bushing or plug.

For measurements see pages 44 and 45.

Corto Radiators

Steam or Water



A—Total height.

B—Distance from floor to center of bottom tapping.

C—Distance from center of top tapping to center of bottom tapping.

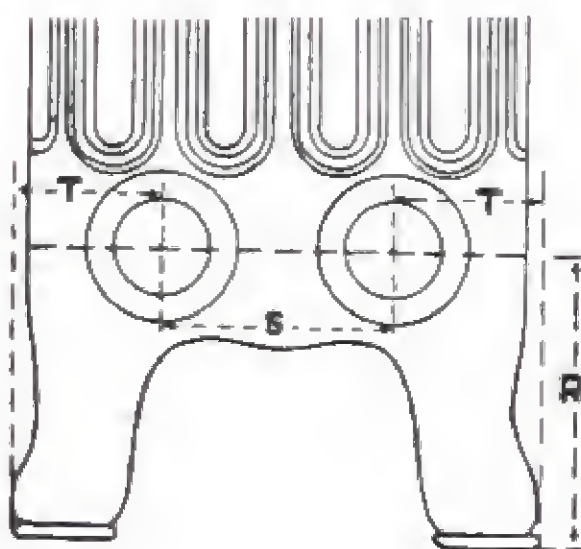
D—Distance from floor to center of top tapping.

E—Width of section.

F—Width at feet.

Twin Tappings

Special Measurements



Measurements are in Inches

Pattern	R	S	T
Corto Six-Tube	4 1/2	3 1/4	3 3/8
Corto Five-Tube . . .	4 1/2	3 1/4	2 1/2
Corto Four-Tube . . .	4 1/2	3 1/4	1 5/8
Corto Three-Tube . .	4 1/2	3 1/4	1 1/4
Corto Seven-Tube Window	3	3 1/4	4 1/16

Measurements of Corto Radiators

Measurements are in inches. See outline, page 44.

		Heating Surface per Section	A Inches	B Inches	C Inches	D Inches	E Inches	F Inches
Corto Six-Tube Radiator	38"	6	38	4½	31 ⁹ / ₁₆	36 ¹ / ₁₆	9 ¹¹ / ₁₆	9 ¹³ / ₁₆
	32"	5	32	4½	25 ⁹ / ₁₆	30 ¹ / ₁₆	9 ¹¹ / ₁₆	9 ¹³ / ₁₆
	26"	4	26	4½	19 ⁹ / ₁₆	24 ¹ / ₁₆	9 ¹¹ / ₁₆	9 ¹³ / ₁₆
	20"	3	20	4½	13 ⁹ / ₁₆	18 ¹ / ₁₆	9 ¹¹ / ₁₆	9 ¹³ / ₁₆
Corto Five-Tube Radiator	38"	5	38	4½	31 ⁹ / ₁₆	36 ¹ / ₁₆	8	8 ¹ / ₈
	32"	4 ¹ / ₃	32	4½	25 ⁹ / ₁₆	30 ¹ / ₁₆	8	8 ¹ / ₈
	26"	3½	26	4½	19 ⁹ / ₁₆	24 ¹ / ₁₆	8	8 ¹ / ₈
	20"	2 ² / ₃	20	4½	13 ⁹ / ₁₆	18 ¹ / ₁₆	8	8 ¹ / ₈
Corto Four-Tube Radiator	38"	4 ¹ / ₄	38	4½	31 ⁹ / ₁₆	36 ¹ / ₁₆	6 ⁵ / ₁₆	6 ⁷ / ₁₆
	32"	3½	32	4½	25 ⁹ / ₁₆	30 ¹ / ₁₆	6 ⁵ / ₁₆	6 ⁷ / ₁₆
	26"	2¾	26	4½	19 ⁹ / ₁₆	24 ¹ / ₁₆	6 ⁵ / ₁₆	6 ⁷ / ₁₆
	20"	2¼	20	4½	13 ⁹ / ₁₆	18 ¹ / ₁₆	6 ⁵ / ₁₆	6 ⁷ / ₁₆
Corto Three-Tube Radiator	38"	3½	38	4½	31 ⁹ / ₁₆	36 ¹ / ₁₆	4 ⁵ / ₈	4 ³ / ₄
	32"	3	32	4½	25 ⁹ / ₁₆	30 ¹ / ₁₆	4 ⁵ / ₈	4 ³ / ₄
	26"	2 ¹ / ₃	26	4½	19 ⁹ / ₁₆	24 ¹ / ₁₆	4 ⁵ / ₈	4 ³ / ₄
	20"	1¾	20	4½	13 ⁹ / ₁₆	18 ¹ / ₁₆	4 ⁵ / ₈	4 ³ / ₄
Corto Seven- Tube Window Radiator	20"	3 ² / ₃	20	3	15 ¹ / ₁₆	18 ¹ / ₁₆	11 ³ / ₈	11½
	17"	3	17	3	12 ¹ / ₁₆	15 ¹ / ₁₆	11 ³ / ₈	11½
	14"	2½	14	3	9 ¹ / ₁₆	12 ¹ / ₁₆	11 ³ / ₈	11½

Length 2½" per section, center to center, on Corto Radiators.

Standard Tappings

Corto Radiators, Single or Twin Connections

50 square feet and under.....	1	x1	inch
Above 50 square feet, but not exceeding 100 square feet.	1 ¹ / ₄	x1 ¹ / ₄	"
Above 100 square feet.....	1½	x1½	"

All Twin Connection Radiators are tapped left-hand. All single Connection or opposite end tappings will be made with right-hand threads. All Radiators shipped with twin connection are tapped left-hand unless otherwise specified on orders.

Peerless One-Column Plain Radiator

For Steam or Water



See page 47

Each section $4\frac{3}{16}$ inches wide.

Width of legs $5\frac{1}{4}$ inches.

See page 86 for List Prices.

Peerless One-Column Plain Radiators

For Steam or Water

No. of Sections	* Length 2½" per Section	HEATING SURFACE				
		38" in Height	32" in Height	26" in Height	23" in Height	20" in Height
		3 Sq. Ft. per Section	2½ Sq. Ft. per Section	2 Sq. Ft. per Section	1⅔ Sq. Ft. per Section	1½ Sq. Ft. per Section
2	5	6	5	4	3⅓	3
3	7½	9	7½	6	5	4½
4	10	12	10	8	6⅔	6
5	12½	15	12½	10	8⅓	7½
6	15	18	15	12	10	9
7	17½	21	17½	14	11⅔	10½
8	20	24	20	16	13⅓	12
9	22½	27	22½	18	15	13½
10	25	30	25	20	16⅔	15
11	27½	33	27½	22	18⅓	16½
12	30	36	30	24	20	18
13	32½	39	32½	26	21⅔	19½
14	35	42	35	28	23⅓	21
15	37½	45	37½	30	25	22½
16	40	48	40	32	26⅔	24
17	42½	51	42½	34	28⅓	25½
18	45	54	45	36	30	27
19	47½	57	47½	38	31⅔	28½
20	50	60	50	40	33⅓	30
21	52½	63	52½	42	35	31½
22	55	66	55	44	36⅔	33
23	57½	69	57½	46	38⅓	34½
24	60	72	60	48	40	36
25	62½	75	62½	50	41⅔	37½

*In estimating length of radiator allow ⅝-inch for each plug or bushing.

Made in twin hub and single connections.

Orders for Radiators should state whether tappings are desired for single or twin connection. Twin connections are tapped left-hand and Single, or opposite end connections are tapped right-hand, unless otherwise ordered.

For distance from floor to center of tapping and other measurements see pages 112 and 113.

Connected at top and bottom with extra-heavy right and left threaded nipples.

For list of tappings for above radiators, see page 111.

Regina One-Column Plain Radiator

For Steam or Water



See page 49

Each Section is $4\frac{3}{16}$ inches wide.

Width of legs $5\frac{1}{4}$ inches

See page 86 for List Prices.

Regina One-Column Plain Radiators

For Steam or Water

No. of Sections	* Length 2½" per Section	HEATING SURFACE				
		38" in Height	32" in Height	26" in Height	23" in Height	20" in Height
		3 Sq. Ft. per Section	2½ Sq. Ft. per Section	2 Sq. Ft. per Section	1⅔ Sq. Ft. per Section	1½ Sq. Ft. per Section
2	5	6	5	4	3⅓	3
3	7½	9	7½	6	5	4½
4	10	12	10	8	6⅔	6
5	12½	15	12½	10	8⅓	7½
6	15	18	15	12	10	9
7	17½	21	17½	14	11⅔	10½
8	20	24	20	16	13⅓	12
9	22½	27	22½	18	15	13½
10	25	30	25	20	16⅔	15
11	27½	33	27½	22	18⅓	16½
12	30	36	30	24	20	18
13	32½	39	32½	26	21⅔	19½
14	35	42	35	28	23⅓	21
15	37½	45	37½	30	25	22½
16	40	48	40	32	26⅔	24
17	42½	51	42½	34	28⅓	25½
18	45	54	45	36	30	27
19	47½	57	47½	38	31⅔	28½
20	50	60	50	40	33⅓	30
21	52½	63	52½	42	35	31½
22	55	66	55	44	36⅔	33
23	57½	69	57½	46	38⅓	34½
24	60	72	60	48	40	36
25	62½	75	62½	50	41⅔	37½

*In estimating length of radiator allow ⅝-inch for each plug or bushing.

Made in twin hub and single connections.

Orders for Radiators should state whether tappings are desired for single or twin connection. Twin connections are tapped left-hand and Single, or opposite end connections are tapped right-hand, unless otherwise ordered.

For distance from floor to center of tapping and other measurements see pages 118 and 119.

Connected at top and bottom with extra heavy right and left threaded nipples.

For list of tappings for above radiators, see pages 114, 115, 116, 117.

Peerless Two-Column Plain Radiators

For Steam or Water



Each section is $7\frac{3}{8}$ inches wide. Width of legs, $8\frac{3}{16}$ inches.

See page 51

See page 86 for List Prices.

Peerless Two-Column Plain Radiators

For Steam or Water

No. of Sections	* Length 2½ in. per Section	HEATING SURFACE—SQUARE FEET					
		45" in Height	38" in Height	32" in Height	26" in Height	23" in Height	20" in Height
		5 Sq. Ft. per Section	4 Sq. Ft. per Section	3⅓ Sq. Ft. per Section	2⅔ Sq. Ft. per Section	2⅓ Sq. Ft. per Section	2 Sq. Ft. per Section
2	5	10	8	6⅔	5⅓	4⅔	4
3	7½	15	12	10	8	7	6
4	10	20	16	13⅓	10⅔	9⅓	8
5	12½	25	20	16⅔	13⅓	11⅔	10
6	15	30	24	20	16	14	12
7	17½	35	28	23⅓	18⅔	16⅓	14
8	20	40	32	26⅔	21⅓	18⅔	16
9	22½	45	36	30	24	21	18
10	25	50	40	33⅓	26⅔	23⅓	20
11	27½	55	44	36⅔	29⅓	25⅔	22
12	30	60	48	40	32	28	24
13	32½	65	52	43⅓	34⅔	30⅓	26
14	35	70	56	46⅔	37⅓	32⅔	28
15	37½	75	60	50	40	35	30
16	40	80	64	53⅓	42⅔	37⅓	32
17	42½	85	68	56⅔	45⅓	39⅔	34
18	45	90	72	60	48	42	36
19	47½	95	76	63⅓	50⅔	44⅓	38
20	50	100	80	66⅔	53⅓	46⅔	40
21	52½	105	84	70	56	49	42
22	55	110	88	73⅓	58⅔	51⅓	44
23	57½	115	92	76⅔	61⅓	53⅔	46
24	60	120	96	80	64	56	48
25	62½	125	100	83⅓	66⅔	58⅓	50

*In estimating length of radiator allow ⅝-inch for each plug or bushing.

Made in twin hub and single connections.

Orders for Radiators should state whether tappings are desired for single or twin connection. Twin connections are tapped left-hand, and Single, or opposite end connections are tapped right-hand, unless otherwise ordered.

For distance from floor to center of tapping and other measurements see pages 112 and 113.

Connected at top and bottom with extra-heavy right and left threaded nipples.

For list of tappings for above radiators, see page 111.

Regina Two-Column Plain Radiator

For Steam or Water



See page 53.

Each section is $7\frac{3}{8}$ inches wide.

Width of legs $8\frac{1}{4}$ inches.

See page 86 for List Prices.

Regina Two-Column Plain Radiators

For Steam or Water

No. of Sections	* Length 2½ in. per Section	HEATING SURFACE						
		45" in Height	38" in Height	32" in Height	30" in Height	26" in Height	23" in Height	20" in Height
		5 Sq. Ft. per Section	4 Sq. Ft. per Section	3⅓ Sq. Ft. per Section	3 Sq. Ft. per Section	2⅔ Sq. Ft. per Section	2⅓ Sq. Ft. per Section	2 Sq. Ft. per Section
2	5	10	8	6⅔	6	5⅓	4⅔	4
3	7½	15	12	10	9	8	7	6
4	10	20	16	13⅓	12	10⅔	9⅓	8
5	12½	25	20	16⅔	15	13⅓	11⅔	10
6	15	30	24	20	18	16	14	12
7	17½	35	28	23⅓	21	18⅔	16⅓	14
8	20	40	32	26⅔	24	21⅓	18⅔	16
9	22½	45	36	30	27	24	21	18
10	25	50	40	33⅓	30	26⅔	23⅓	20
11	27½	55	44	36⅔	33	29⅓	25⅔	22
12	30	60	48	40	36	32	28	24
13	32½	65	52	43⅓	39	34⅔	30⅓	26
14	35	70	56	46⅔	42	37⅓	32⅔	28
15	37½	75	60	50	45	40	35	30
16	40	80	64	53⅓	48	42⅔	37⅓	32
17	42½	85	68	56⅔	51	45⅓	39⅔	34
18	45	90	72	60	54	48	42	36
19	47½	95	76	63⅓	57	50⅔	44⅓	38
20	50	100	80	66⅔	60	53⅓	46⅔	40
21	52½	105	84	70	63	56	49	42
22	55	110	88	73⅓	66	58⅔	51⅓	44
23	57½	115	92	76⅔	69	61⅓	53⅔	46
24	60	120	96	80	72	64	56	48
25	62½	125	100	83⅓	75	66⅔	58⅓	50

*In estimating length of radiator allow ⅝-inch for each plug or bushing.

Made in twin hub and single connections.

Orders for Radiators should state whether tappings are desired for single or twin connection. Twin connections are tapped left-hand and Single, or opposite end connections are tapped right-hand, unless otherwise ordered.

For distance from floor to center of tapping and other measurements see pages 118, 119.

Connected at top and bottom with extra-heavy right and left threaded nipples.

For list of tappings for above radiators, see pages 114, 115, 116, 117.

Peerless Three-Column Plain Radiators

For Steam or Water



Each section is 9 inches wide Width of legs, $9\frac{7}{8}$ inches.

See page 55.

See page 86 for List Prices.

Peerless Three-Column Plain Radiators

For Steam or Water

No. of Sections	* Length $2\frac{1}{2}$ in. per Section	HEATING SURFACE—SQUARE FEET					
		45" in Height	38" in Height	32" in Height	26" in Height	22" in Height	18" in Height
		6 Sq. Ft. per Section	5 Sq. Ft. per Section	$4\frac{1}{2}$ Sq. Ft. per Section	$3\frac{3}{4}$ Sq. Ft. per Section	3 Sq. Ft. per Section	$2\frac{1}{4}$ Sq. Ft. per Section
2	5	12	10	9	$7\frac{1}{2}$	6	$4\frac{1}{2}$
3	$7\frac{1}{2}$	18	15	$13\frac{1}{2}$	$11\frac{1}{4}$	9	$6\frac{3}{4}$
4	10	24	20	18	15	12	9
5	$12\frac{1}{2}$	30	25	$22\frac{1}{2}$	$18\frac{3}{4}$	15	$11\frac{1}{4}$
6	15	36	30	27	$22\frac{1}{2}$	18	$13\frac{1}{2}$
7	$17\frac{1}{2}$	42	35	$31\frac{1}{2}$	$26\frac{1}{4}$	21	$15\frac{3}{4}$
8	20	48	40	36	30	24	18
9	$22\frac{1}{2}$	54	45	$40\frac{1}{2}$	$33\frac{3}{4}$	27	$20\frac{1}{4}$
10	25	60	50	45	$37\frac{1}{2}$	30	$22\frac{1}{2}$
11	$27\frac{1}{2}$	66	55	$49\frac{1}{2}$	$41\frac{1}{4}$	33	$24\frac{3}{4}$
12	30	72	60	54	45	36	27
13	$32\frac{1}{2}$	78	65	$58\frac{1}{2}$	$48\frac{3}{4}$	39	$29\frac{1}{4}$
14	35	84	70	63	$52\frac{1}{2}$	42	$31\frac{1}{2}$
15	$37\frac{1}{2}$	90	75	$67\frac{1}{2}$	$56\frac{1}{4}$	45	$33\frac{3}{4}$
16	40	96	80	72	60	48	36
17	$42\frac{1}{2}$	102	85	$76\frac{1}{2}$	$63\frac{3}{4}$	51	$38\frac{1}{4}$
18	45	108	90	81	$67\frac{1}{2}$	54	$40\frac{1}{2}$
19	$47\frac{1}{2}$	114	95	$85\frac{1}{2}$	$71\frac{1}{4}$	57	$42\frac{3}{4}$
20	50	120	100	90	75	60	45
21	$52\frac{1}{2}$	126	105	$94\frac{1}{2}$	$78\frac{3}{4}$	63	$47\frac{1}{4}$
22	55	132	110	99	$82\frac{1}{2}$	66	$49\frac{1}{2}$
23	$57\frac{1}{2}$	138	115	$103\frac{1}{2}$	$86\frac{1}{4}$	69	$51\frac{3}{4}$
24	60	144	120	108	90	72	54
25	$62\frac{1}{2}$	150	125	$112\frac{1}{2}$	$93\frac{3}{4}$	75	$56\frac{1}{4}$

*In estimating length of radiator allow $\frac{5}{8}$ -inch for each plug or bushing.

Made in twin hub and single connections.

Orders for Radiators should state whether tappings are desired for single or twin connection. Twin connections are tapped left-hand and Single, or opposite end connections are tapped right-hand, unless otherwise ordered.

For distance from floor to center of tapping and other measurements see pages 112 and 113.

Connected at top and bottom with extra-heavy right and left threaded nipples.

For list of tappings for above radiators, see page 111.

Regina Three-Column Plain Radiator

For Steam or Water



See page 57.

Each Section is 9 inches wide.

Width of Legs, $9\frac{1}{4}$ inches.

See page 86 for List Prices.

Regina Three-Column Plain Radiators

For Steam or Water

No. of Sections	* Length 2½ in. per Section	HEATING SURFACE					
		44" in Height	38" in Height	32" in Height	26" in Height	22" in Height	18" in Height
		6 Sq. Ft. per Section	5 Sq. Ft. per Section	4½ Sq. Ft. per Section	3¾ Sq. Ft. per Section	3 Sq. Ft. per Section	2¼ Sq. Ft. per Section
2	5	12	10	9	7½	6	4½
3	7½	18	15	13½	11¼	9	6¾
4	10	24	20	18	15	12	9
5	12½	30	25	22½	18¾	15	11¼
6	15	36	30	27	22½	18	13½
7	17½	42	35	31½	26¼	21	15¾
8	20	48	40	36	30	24	18
9	22½	54	45	40½	33¾	27	20¼
10	25	60	50	45	37½	30	22½
11	27½	66	55	49½	41¼	33	24¾
12	30	72	60	54	45	36	27
13	32½	78	65	58½	48¾	39	29¼
14	35	84	70	63	52½	42	31½
15	37½	90	75	67½	56¼	45	33¾
16	40	96	80	72	60	48	36
17	42½	102	85	76½	63¾	51	38¼
18	45	108	90	81	67½	54	40½
19	47½	114	95	85½	71¼	57	42¾
20	50	120	100	90	75	60	45
21	52½	126	105	94½	78¾	63	47¼
22	55	132	110	99	82½	66	49½
23	57½	138	115	103½	86¼	69	51¾
24	60	144	120	108	90	72	54
25	62½	150	125	112½	93¾	75	56¼

*In estimating length of radiator allow ⅝-inch for each plug or bushing.

Made in twin hub and single connections.

Orders for Radiators should state whether tappings are desired for single or twin connection. Twin connections are tapped left-hand and Single, or opposite end connections are tapped right-hand, unless otherwise ordered.

For distance from floor to center of tapping and other measurements see pages 118 and 119.

Connected at top and bottom with extra-heavy right and left threaded nipples.

For list of tappings for above radiators, see pages 114, 115, 116, 117.

Peerless Four-Column Plain Radiators

For Steam or Water



Each section is $10\frac{1}{2}$ inches wide. Width of legs, $11\frac{1}{4}$ inches.

See page 59.

See page 86 for List Prices.

Peerless Four-Column Plain Radiators

For Steam or Water

No. of Sections	* Length 3 in. per Section	HEATING SURFACE—SQUARE FEET					
		45" in Height	38" in Height	32" in Height	26" in Height	22" in Height	18" in Height
		10 Sq. Ft. per Section	8 Sq. Ft. per Section	6½ Sq. Ft. per Section	5 Sq. Ft. per Section	4 Sq. Ft. per Section	3 Sq. Ft. per Section
2	6	20	16	13	10	8	6
3	9	30	24	19½	15	12	9
4	12	40	32	26	20	16	12
5	15	50	40	32½	25	20	15
6	18	60	48	39	30	24	18
7	21	70	56	45½	35	28	21
8	24	80	64	52	40	32	24
9	27	90	72	58½	45	36	27
10	30	100	80	65	50	40	30
11	33	110	88	71½	55	44	33
12	36	120	96	78	60	48	36
13	39	130	104	84½	65	52	39
14	42	140	112	91	70	56	42
15	45	150	120	97½	75	60	45
16	48	160	128	104	80	64	48
17	51	170	136	110½	85	68	51
18	54	180	144	117	90	72	54
19	57	190	152	123½	95	76	57
20	60	200	160	130	100	80	60
21	63	210	168	136½	105	84	63
22	66	220	176	143	110	88	66
23	69	230	184	149½	115	92	69
24	72	240	192	156	120	96	72
25	75	250	200	162½	125	100	75

*In estimating length of radiator allow ⅝-inch for each plug or bushing

Made in twin hub and single connections.

Orders for Radiators should state whether tappings are desired for single or twin connection. Twin connections are tapped left-hand and Single, or opposite end connections are tapped right-hand, unless otherwise ordered.

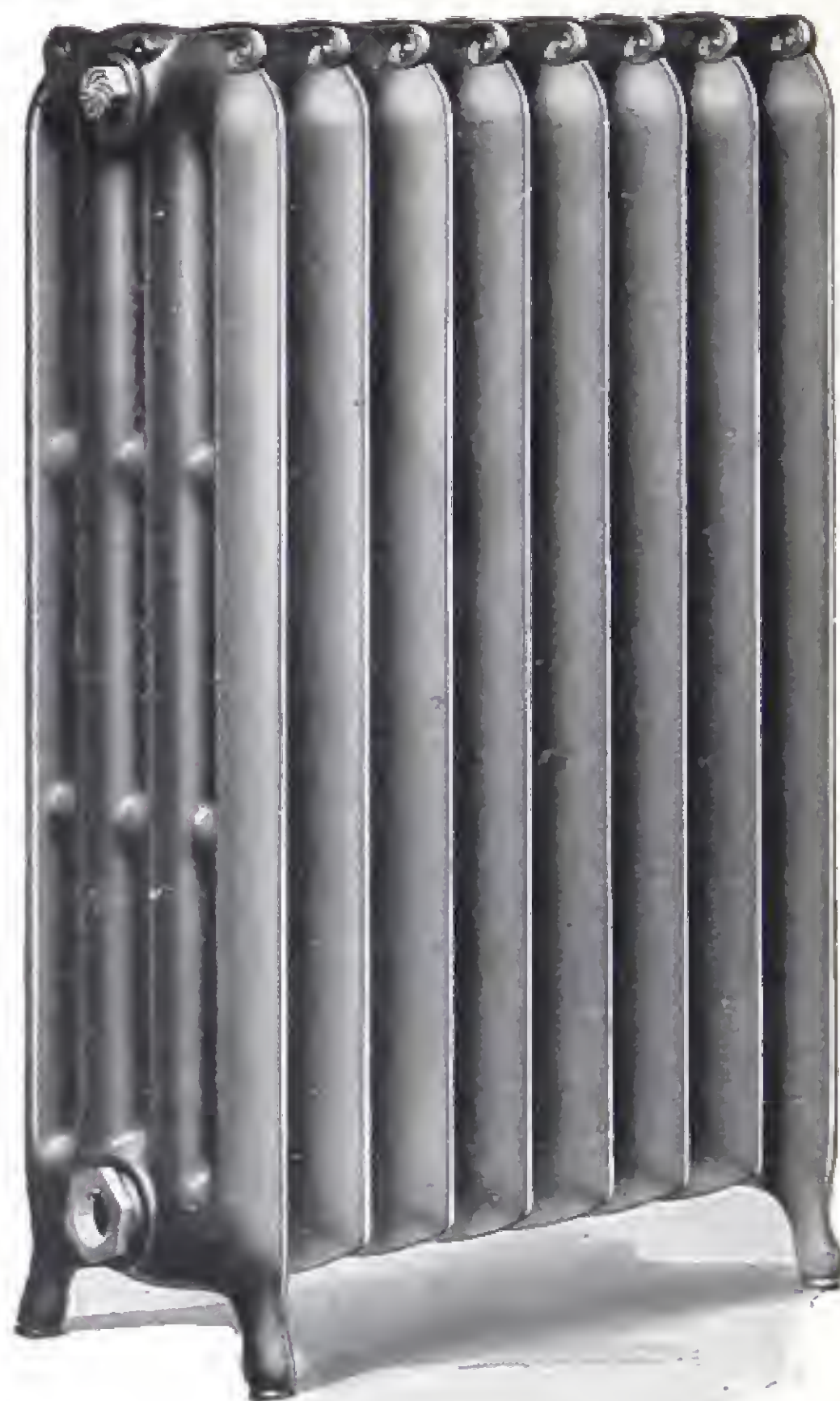
For distance from floor to center of tapping and other measurements see pages 112 and 113.

Connected at top and bottom with extra-heavy right and left threaded nipples.

For list of tappings for above radiators, see page 111.

Regina Four-Column Plain Radiator

For Steam or Water



See page 61.

Each section is $11\frac{1}{2}$ inches wide.

Width of legs $11\frac{3}{4}$ inches.

See page 86 for List Prices.

Regina Four-Column Plain Radiators

For Steam or Water

No. of Sections	* Length 3 in. per Sec- tion	HEATING SURFACE						
		45" in Height	38" in Height	32" in Height	26" in Height	22" in Height	20" in Height	18" in Height
		10 Sq. Ft. per Sec- tion	8 Sq. Ft. per Sec- tion	6½ Sq. Ft. per Sec- tion	5 Sq. Ft. per Sec- tion	4 Sq. Ft. per Sec- tion	3½ Sq. Ft. per Sec- tion	3 Sq. Ft. per Sec- tion
2	6	20	16	13	10	8	7	6
3	9	30	24	19½	15	12	10½	9
4	12	40	32	26	20	16	14	12
5	15	50	40	32½	25	20	17½	15
6	18	60	48	39	30	24	21	18
7	21	70	56	45½	35	28	24½	21
8	24	80	64	52	40	32	28	24
9	27	90	72	58½	45	36	31½	27
10	30	100	80	65	50	40	35	30
11	33	110	88	71½	55	44	38½	33
12	36	120	96	78	60	48	42	36
13	39	130	104	84½	65	52	45½	39
14	42	140	112	91	70	56	49	42
15	45	150	120	97½	75	60	52½	45
16	48	160	128	104	80	64	56	48
17	51	170	136	110½	85	68	59½	51
18	54	180	144	117	90	72	63	54
19	57	190	152	123½	95	76	66½	57
20	60	200	160	130	100	80	70	60
21	63	210	168	136½	105	84	73½	63
22	66	220	176	143	110	88	77	66
23	69	230	184	149½	115	92	80½	69
24	72	240	192	156	120	96	84	72
25	75	250	200	162½	125	100	87½	75

*In estimating length of radiator allow ⅝-inch for each plug or bushing.

Made in twin hub and single connections.

Orders for Radiators should state whether tappings are desired for single or twin connection. Twin connections are tapped left-hand and Single, or opposite end connections are tapped right-hand, unless otherwise ordered.

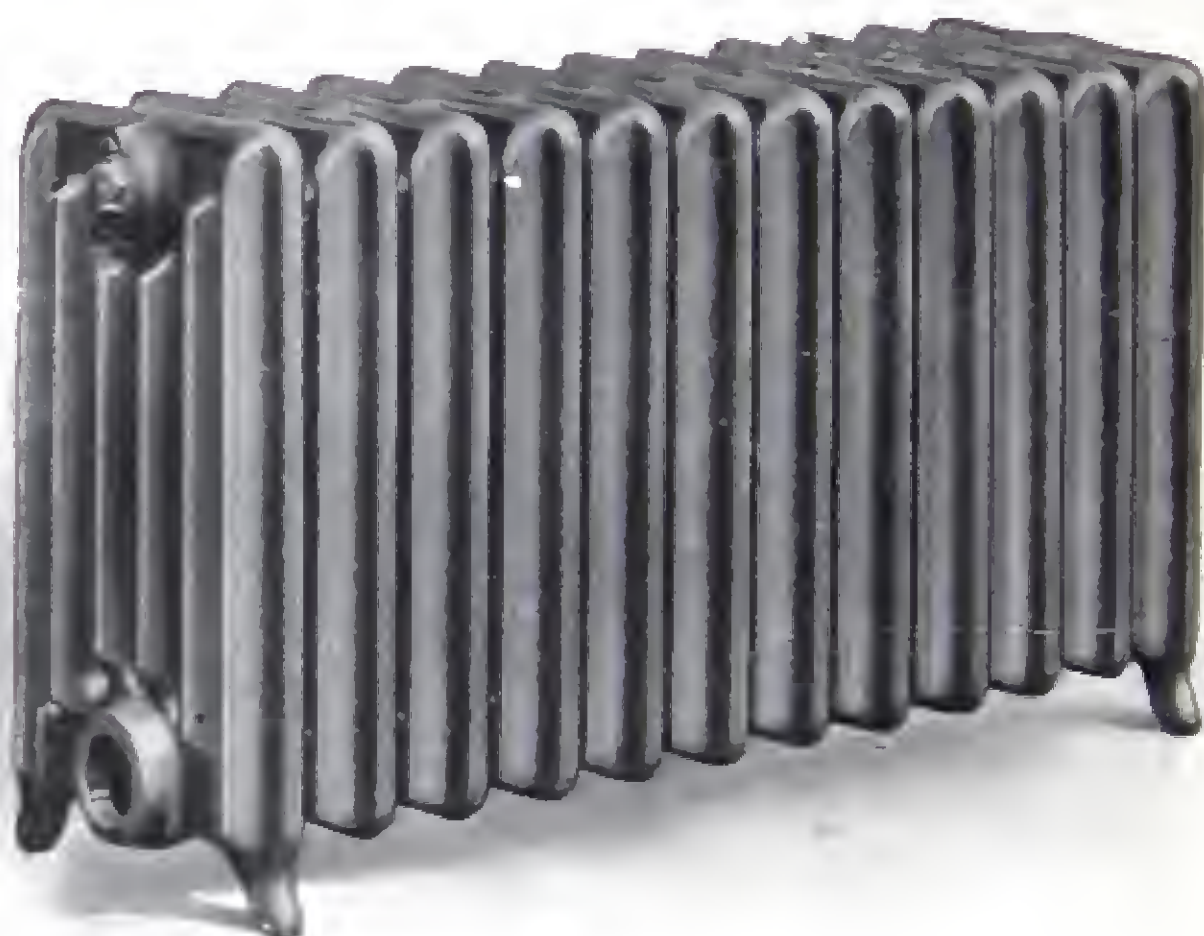
For distance from floor to center of tapping and other measurements see pages 118 and 119.

Connected at top and bottom with extra-heavy right and left threaded nipples.

For list of tappings for above radiators, see pages 114, 115, 116, 117.

Peerless Plain Window Radiators

For Steam or Water



Each section is $12\frac{1}{2}$ inches wide.

Width of legs $12\frac{1}{2}$ inches.

See page 63

See page 86 for List Prices.

Peerless Plain Window Radiators

For Steam or Water

No. of Sections	* Length 3 in. per Section	HEATING SURFACE—SQUARE FEET		
		20" in Height	16" in Height	13" in Height
		5 Sq. Ft. per Section	3 ³ / ₄ Sq. Ft. per Section	3 Sq. Ft. per Section
2	6	10	7 ¹ / ₂	6
3	9	15	11 ¹ / ₄	9
4	12	20	15	12
5	15	25	18 ³ / ₄	15
6	18	30	22 ¹ / ₂	18
7	21	35	26 ¹ / ₄	21
8	24	40	30	24
9	27	45	33 ³ / ₄	27
10	30	50	37 ¹ / ₂	30
11	33	55	41 ¹ / ₄	33
12	36	60	45	36
13	39	65	48 ³ / ₄	39
14	42	70	52 ¹ / ₂	42
15	45	75	56 ¹ / ₄	45
16	48	80	60	48
17	51	85	63 ³ / ₄	51
18	54	90	67 ¹ / ₂	54
19	57	95	71 ¹ / ₄	57
20	60	100	75	60
21	63	105	78 ³ / ₄	63
22	66	110	82 ¹ / ₂	66
23	69	115	86 ¹ / ₄	69
24	72	120	90	72
25	75	125	93 ³ / ₄	75

*In estimating length of radiator allow $\frac{5}{8}$ -inch for each plug or bushing.

Made in twin hub and single connections.

Orders for Radiators should state whether tappings are desired for single or twin connection. Twin connections are tapped left-hand and Single, or opposite end connections are tapped right-hand, unless otherwise ordered.

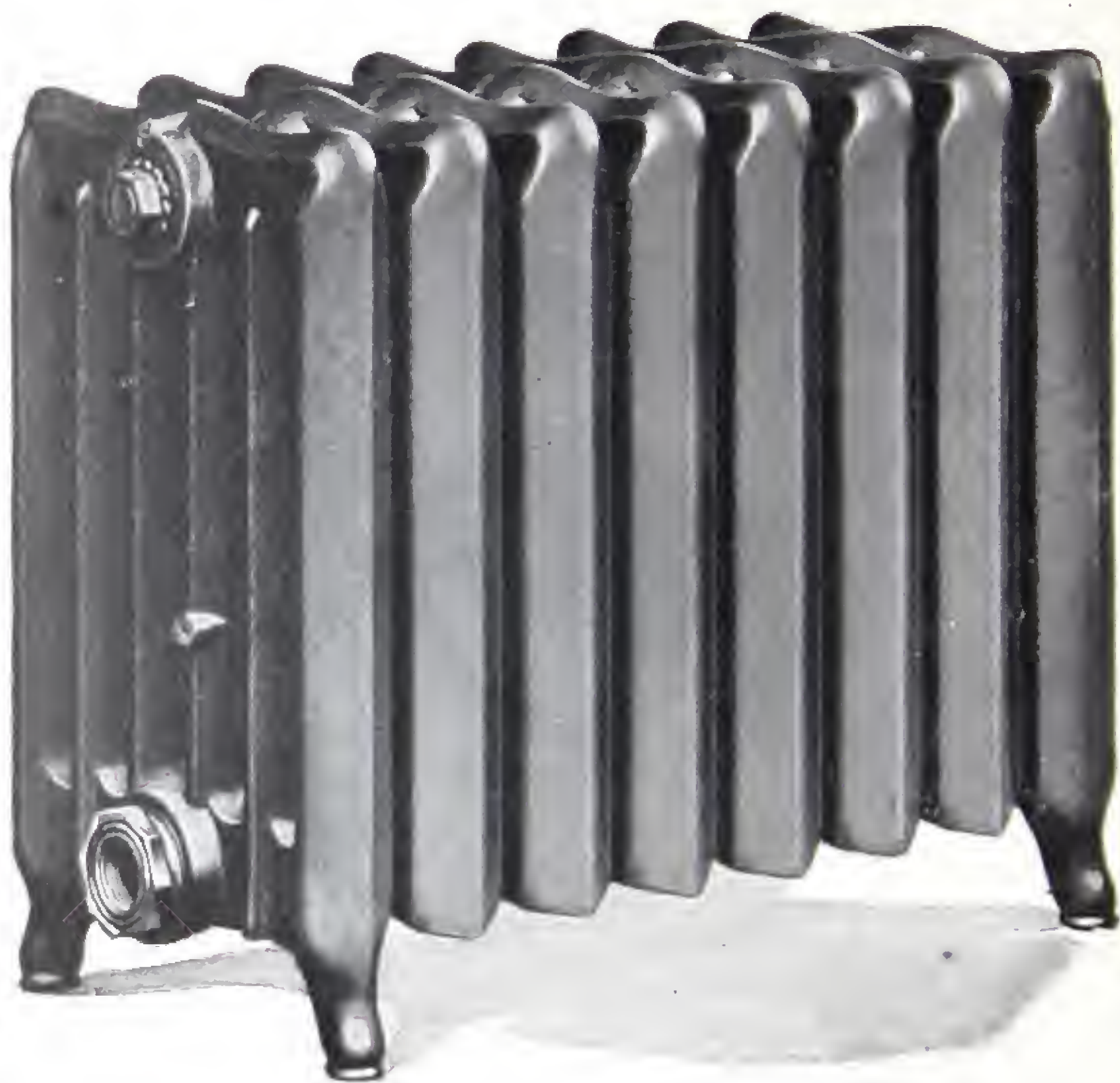
For distance from floor to center of tapping and other measurements see pages 112 and 113.

Connected at top and bottom with extra-heavy right and left threaded nipples.

For list of tappings for above radiators, see page 111.

Regina Six-Column Plain Window Radiator

For Steam or Water



Each section is $12\frac{1}{8}$ inches wide

Width of legs, $12\frac{1}{8}$ inches.

See page 65.

See page 86 for List Prices.

Regina Six-Column Plain Window Radiators

For Steam or Water

No. of Sections	* Length 3" per Section	HEATING SURFACE			
		20" in Height	18" in Height	16" in Height	13" in Height
		5 Sq. Ft. per Section	4 $\frac{1}{4}$ Sq. Ft. per Section	3 $\frac{3}{4}$ Sq. Ft. per Section	3 Sq. Ft. per Section
2	6	10	8 $\frac{1}{2}$	7 $\frac{1}{2}$	6
3	9	15	12 $\frac{3}{4}$	11 $\frac{1}{4}$	9
4	12	20	17	15	12
5	15	25	21 $\frac{1}{4}$	18 $\frac{3}{4}$	15
6	18	30	25 $\frac{1}{2}$	22 $\frac{1}{2}$	18
7	21	35	29 $\frac{3}{4}$	26 $\frac{1}{4}$	21
8	24	40	34	30	24
9	27	45	38 $\frac{1}{4}$	33 $\frac{3}{4}$	27
10	30	50	42 $\frac{1}{2}$	37 $\frac{1}{2}$	30
11	33	55	46 $\frac{3}{4}$	41 $\frac{1}{4}$	33
12	36	60	51	45	36
13	39	65	55 $\frac{1}{4}$	48 $\frac{3}{4}$	39
14	42	70	59 $\frac{1}{2}$	52 $\frac{1}{2}$	42
15	45	75	63 $\frac{3}{4}$	56 $\frac{1}{4}$	45
16	48	80	68	60	48
17	51	85	72 $\frac{1}{4}$	63 $\frac{3}{4}$	51
18	54	90	76 $\frac{1}{2}$	67 $\frac{1}{2}$	54
19	57	95	80 $\frac{3}{4}$	71 $\frac{1}{4}$	57
20	60	100	85	75	60
21	63	105	89 $\frac{1}{4}$	78 $\frac{3}{4}$	63
22	66	110	93 $\frac{1}{2}$	82 $\frac{1}{2}$	66
23	69	115	97 $\frac{3}{4}$	86 $\frac{1}{4}$	69
24	72	120	102	90	72
25	75	125	106 $\frac{1}{4}$	93 $\frac{3}{4}$	75

*In estimating length of radiator allow $\frac{5}{8}$ -inch for each plug or bushing.

Made in twin hub and single connections.

Orders for Radiators should state whether tappings are desired for single or twin connection. Twin connections are tapped left-hand, and Single, or opposite end connections are tapped right-hand, unless otherwise ordered.

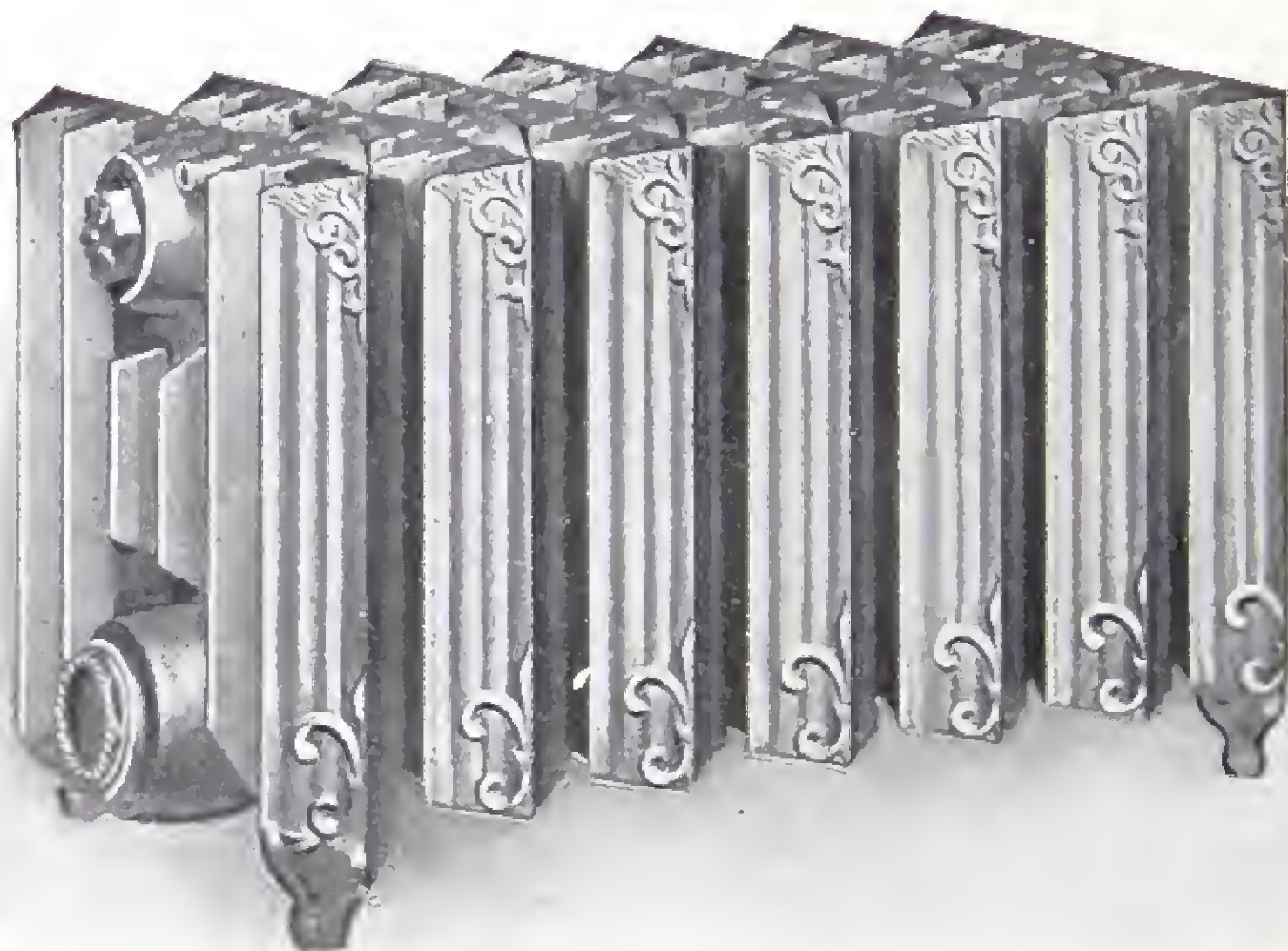
For distance from floor to center of tapping and other measurements see pages 118, 119.

Connected at top and bottom with extra-heavy right and left threaded nipples.

For list of tappings for above radiators, see pages 114, 115, 116, 117.

Acme Flue Five-Column Window Radiator

For Steam or Water



Each section is $12\frac{3}{4}$ " wide. Width of legs $12\frac{3}{4}$ ".

See page 67.

See page 86 for List Prices.

Acme Flue Five-Column Window Radiators

For Steam or Water

No. of Sections	* Length 3" per Section	HEATING SURFACE				
		20" in Height	18" in Height	16" in Height	14" in Height	13" in Height
		6 Sq. Ft. per Section	5 $\frac{1}{3}$ Sq. Ft. per Section	4 $\frac{2}{3}$ Sq. Ft. per Section	4 Sq. Ft. per Section	3 $\frac{2}{3}$ Sq. Ft. per Section
2	6	12	10 $\frac{2}{3}$	9 $\frac{1}{3}$	8	7 $\frac{1}{3}$
3	9	18	16	14	12	11
4	12	24	21 $\frac{1}{3}$	18 $\frac{2}{3}$	16	14 $\frac{2}{3}$
5	15	30	26 $\frac{2}{3}$	23 $\frac{1}{3}$	20	18 $\frac{1}{3}$
6	18	36	32	28	24	22
7	21	42	37 $\frac{1}{3}$	32 $\frac{2}{3}$	28	25 $\frac{2}{3}$
8	24	48	42 $\frac{2}{3}$	37 $\frac{1}{3}$	32	29 $\frac{1}{3}$
9	27	54	48	42	36	33
10	30	60	53 $\frac{1}{3}$	46 $\frac{2}{3}$	40	36 $\frac{2}{3}$
11	33	66	58 $\frac{2}{3}$	51 $\frac{1}{3}$	44	40 $\frac{1}{3}$
12	36	72	64	56	48	44
13	39	78	69 $\frac{1}{3}$	60 $\frac{2}{3}$	52	47 $\frac{2}{3}$
14	42	84	74 $\frac{2}{3}$	65 $\frac{1}{3}$	56	51 $\frac{1}{3}$
15	45	90	80	70	60	55
16	48	96	85 $\frac{1}{3}$	74 $\frac{2}{3}$	64	58 $\frac{2}{3}$
17	51	102	90 $\frac{2}{3}$	79 $\frac{1}{3}$	68	62 $\frac{1}{3}$
18	54	108	96	84	72	66
19	57	114	101 $\frac{1}{3}$	88 $\frac{2}{3}$	76	69 $\frac{2}{3}$
20	60	120	106 $\frac{2}{3}$	93 $\frac{1}{3}$	80	73 $\frac{1}{3}$
21	63	126	112	98	84	77
22	66	132	117 $\frac{1}{3}$	102 $\frac{2}{3}$	88	80 $\frac{2}{3}$
23	69	138	122 $\frac{2}{3}$	107 $\frac{1}{3}$	92	84 $\frac{1}{3}$
24	72	144	128	112	96	88
25	75	150	133 $\frac{1}{3}$	116 $\frac{2}{3}$	100	91 $\frac{2}{3}$

*In estimating length of radiator allow $\frac{5}{8}$ inch for each plug or bushing.

Made in twin hub and single connections.

Orders for Radiators should state whether tappings are desired for single or twin connection. Twin connections are tapped left-hand and Single or opposite end connections are tapped right-hand, unless otherwise ordered.

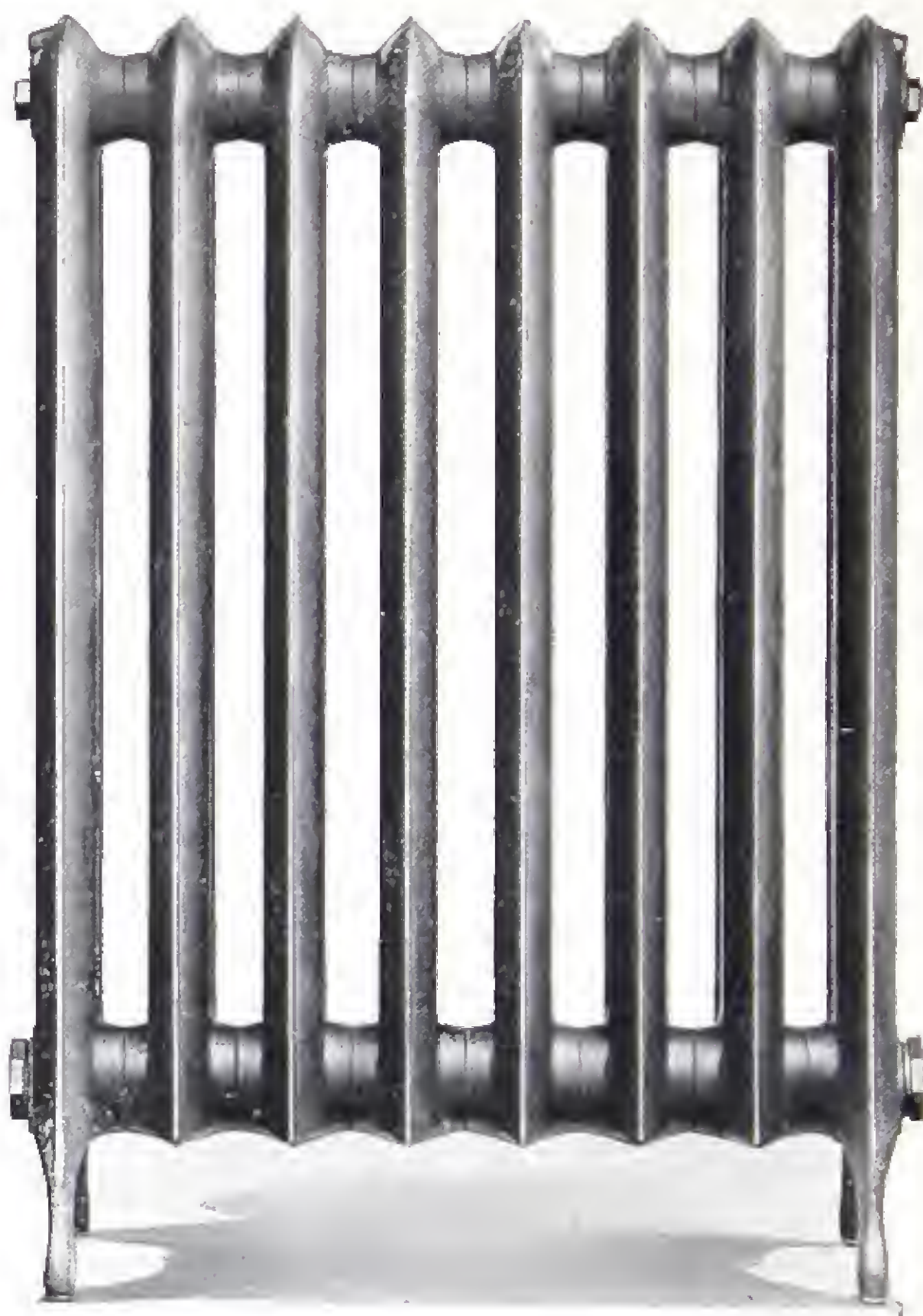
For distance from floor to centre of tapping and other measurements see pages 118, 119.

Connected at top and bottom with extra heavy right and left threaded nipples.

For list of tappings for above radiators, see pages 114, 115, 116, 117.

Saxon Plain Two-Column Hospital Radiators

For Steam or Water



Note.—Saxon Plain Hospital Type Radiator also made in 3-column $3\frac{1}{2}$ " centers (see page 71), and in 4-column, $3\frac{1}{2}$ " centers (see page 61 for capacities).

These Radiators are made with special wide hubs, making the distance from center to center of loops $3\frac{1}{2}$ inches and allowing easy access to the sections for cleaning purposes.

Each section is $7\frac{3}{8}$ " wide, width of legs $8\frac{1}{4}$ ".

See page 69.

See page 86 for List Prices.

Saxon Plain Two-Column Hospital Radiators

For Steam or Water

No. of Sections	* Length 3½" per Section	HEATING SURFACE						
		45" in Height	38" in Height	32" in Height	30" in Height	26" in Height	23" in Height	20" in Height
		5 Sq. Ft. per Section	4 Sq. Ft. per Section	3⅓ Sq. Ft. per Section	3 Sq. Ft. per Section	2⅔ Sq. Ft. per Section	2⅓ Sq. Ft. per Section	2 Sq. Ft. per Section
2	6	10	8	6⅔	6	5⅓	4⅔	4
3	9½	15	12	10	9	8	7	6
4	13	20	16	13⅓	12	10⅔	9⅓	8
5	16½	25	20	16⅔	15	13⅓	11⅔	10
6	20	30	24	20	18	16	14	12
7	23½	35	28	23⅓	21	18⅔	16⅓	14
8	27	40	32	26⅔	24	21⅓	18⅔	16
9	30½	45	36	30	27	24	21	18
10	34	50	40	33⅓	30	26⅔	23⅓	20
11	37½	55	44	36⅔	33	29⅓	25⅔	22
12	41	60	48	40	36	32	28	24
13	44½	65	52	43⅓	39	34⅔	30⅓	26
14	48	70	56	46⅔	42	37⅓	32⅔	28
15	51½	75	60	50	45	40	35	30
16	55	80	64	53⅓	48	42⅔	37⅓	32
17	58½	85	68	56⅔	51	45⅓	39⅔	34
18	62	90	72	60	54	48	42	36
19	65½	95	76	63⅓	57	50⅔	44⅓	38
20	69	100	80	66⅔	60	53⅓	46⅔	40
21	72½	105	84	70	63	56	49	42
22	76	110	88	73⅓	66	58⅔	51⅓	44
23	79½	115	92	76⅔	69	61⅓	53⅔	46
24	83	120	96	80	72	64	56	48
25	86½	125	100	83⅓	75	66⅔	58⅓	50

*In estimating length of radiator allow ⅝-inch for each plug or bushing.

Made in twin hub and single connections.

Orders for Radiators should state whether tapplings are desired for single or twin connection. Twin connections are tapped left-hand and Single, or opposite end connection are tapped right-hand, unless otherwise ordered.

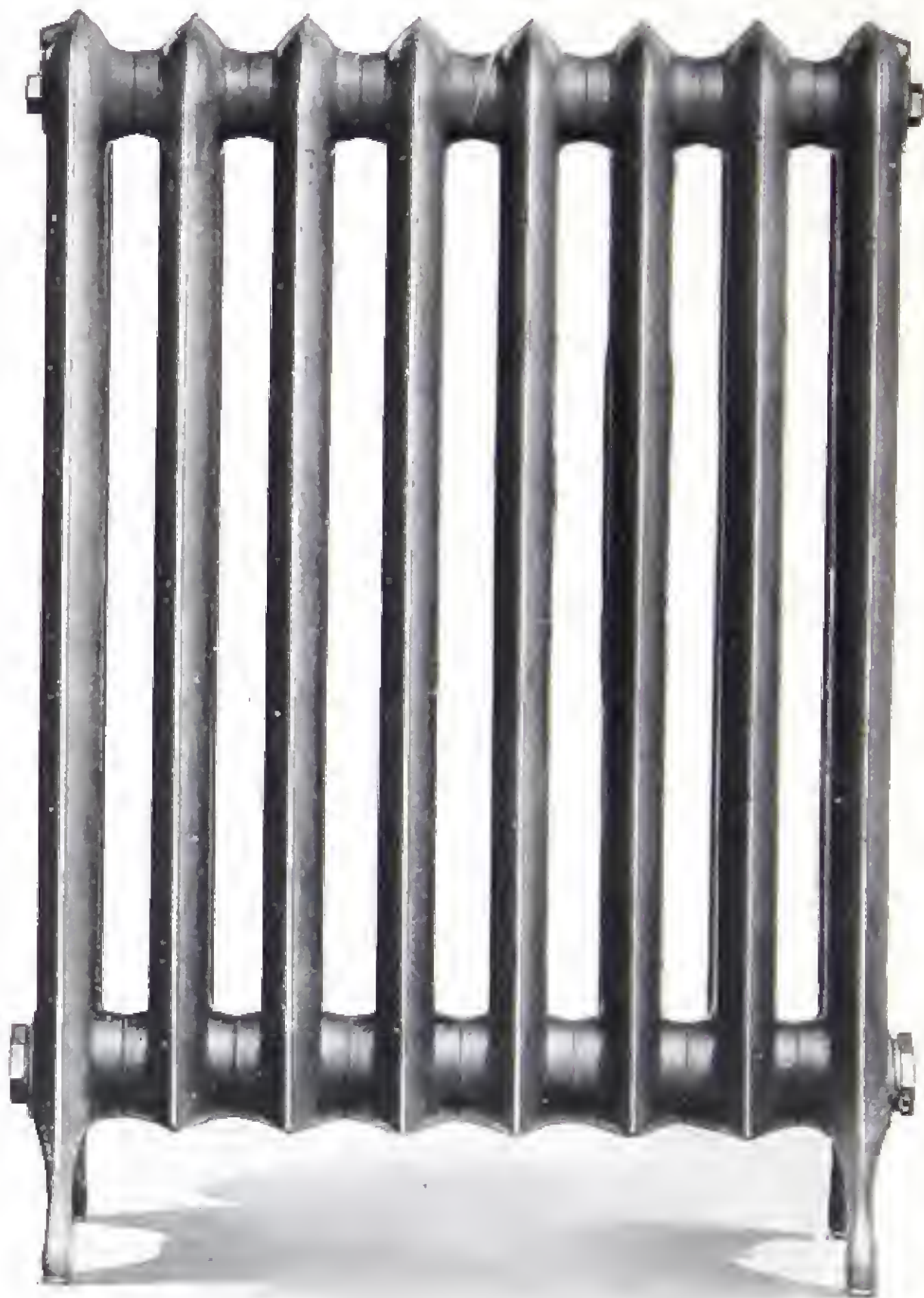
For distance from floor to center of tapping and other measurements, see pages 118, 119.

Connected at top and bottom with extra-heavy right and left threaded nipples.

For list of tapplings for above radiators, see pages 114, 115, 116 117.

Saxon Plain Three-Column Hospital Radiator

For Steam or Water



Each section is 9" wide. Width of legs, $9\frac{1}{4}$ ".

Note.—Saxon Plain Hospital Type Radiators also made in four-column $3\frac{1}{2}$ " centers. See page 61 for capacities.

These Radiators are made with special wide hubs, making the distance from center to center of loops $3\frac{1}{2}$ inches and allowing easy access to the sections for cleaning purposes.

See page 71.

See page 86 for List Prices.

Saxon Plain Three-Column Hospital Radiators

For Steam or Water

No. of Section	* Length 3½ in. per Section	HEATING SURFACE					
		44" in Height	38" in Height	32" in Height	26" in Height	22" in Height	18" in Height
		6 Sq. Ft. per Section	5 Sq. Ft. per Section	4½ Sq. Ft. per Section	3¾ Sq. Ft. per Section	3 Sq. Ft. per Section	2¼ Sq. Ft. per Section
2	6	12	10	9	7½	6	4½
3	9½	18	15	13½	11¼	9	6¾
4	13	24	20	18	15	12	9
5	16½	30	25	22½	18¾	15	11¼
6	20	36	30	27	22½	18	13½
7	23½	42	35	31½	26¼	21	15¾
8	27	48	40	36	30	24	18
9	30½	54	45	40½	33¾	27	20¼
10	34	60	50	45	37½	30	22½
11	37½	66	55	49½	41¼	33	24¾
12	41	72	60	54	45	36	27
13	44½	78	65	58½	48¾	39	29¼
14	48	84	70	63	52½	42	31½
15	51½	90	75	67½	56¼	45	33¾
16	55	96	80	72	60	48	36
17	58½	102	85	76½	63¾	51	38¼
18	62	108	90	81	67½	54	40½
19	65½	114	95	85½	71¼	57	42¾
20	69	120	100	90	75	60	45
21	72½	126	105	94½	78¾	63	47¼
22	76	132	110	99	82½	66	49½
23	79½	138	115	103½	86¼	69	51¾
24	83	144	120	108	90	72	54
25	86½	150	125	112½	93¾	75	56¼

*In estimating length of radiator allow ⅝ inch for each plug or bushing.

Made in twin hub and single connections.

Orders for Radiators should state whether tappings are desired for single or twin connection. Twin connections are tapped left-hand and Single or opposite end connections are tapped right-hand, unless otherwise ordered.

For distance from floor to center of tapping and other measurements see pages 118 and 119.

Connected at top and bottom with extra heavy right and left threaded nipples.

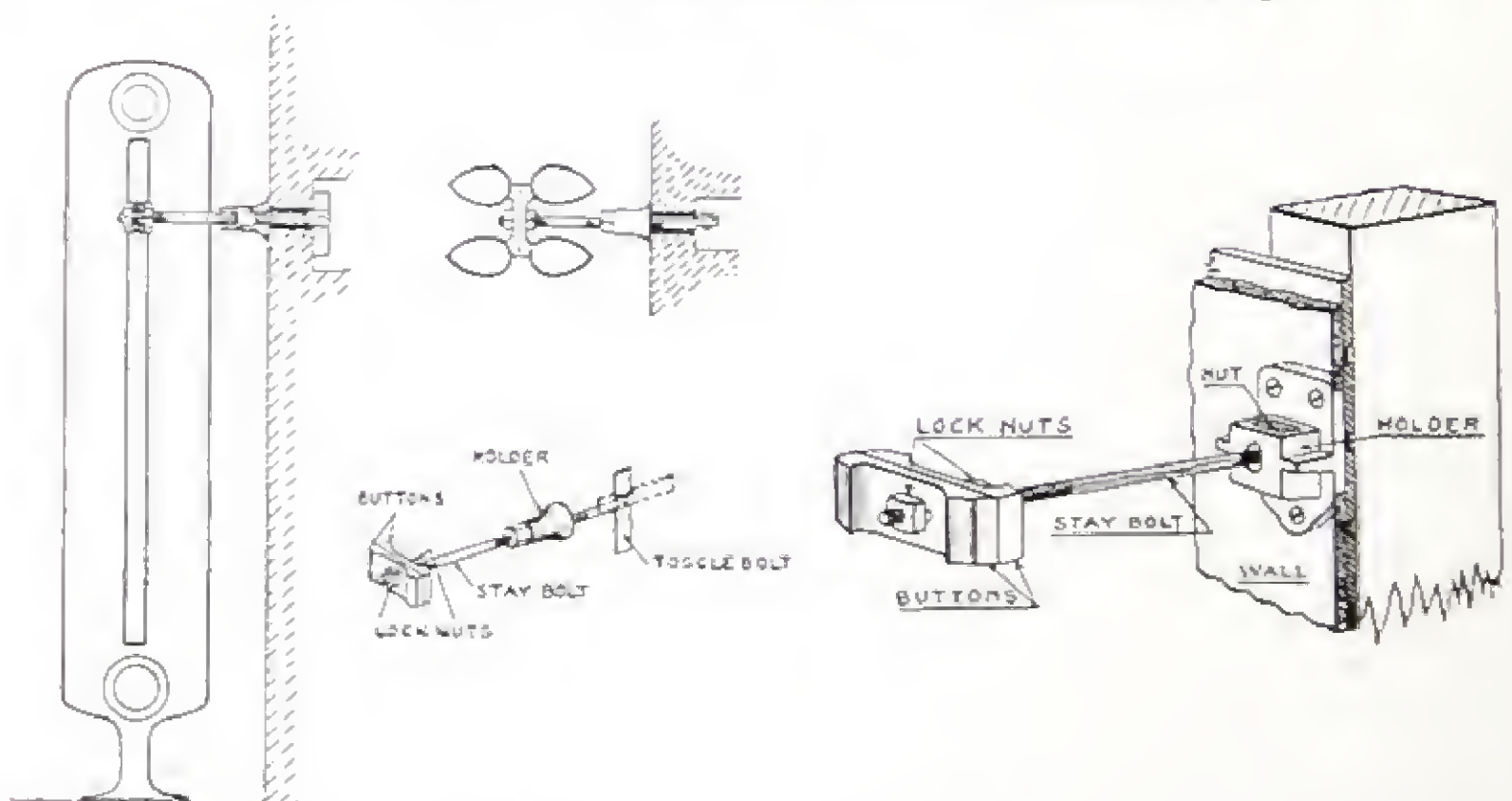
For list of tappings for above radiators, see pages 114, 115, 116, 117.

Saxon Sanitary Pedestal Radiator

For Steam or Water



Two- or Three-Column with 6-inch Pedestal Leg.



The illustrations show how to support the Saxon Sanitary Pedestal Radiator from a hollow tile or plaster wall.
See page 73. See page 86 for List Prices.

Saxon Sanitary Pedestal Radiator

Two Column

Plain—Round Top—For Steam or Water

No. of Sections	* Length 3½ in. per Section	HEATING SURFACE						
		45" in Height	38" in Height	32" in Height	30" in Height	26" in Height	23" in Height	20" in Height
		5 Sq. Ft. per Section	4 Sq. Ft. per Section	3½ Sq. Ft. per Section	3 Sq. Ft. per Section	2⅔ Sq. Ft. per Section	2⅓ Sq. Ft. per Section	2 Sq. Ft. per Section
2	6	10	8	6⅔	6	5⅓	4⅔	4
3	9½	15	12	10	9	8	7	6
4	13	20	16	13⅓	12	10⅔	9⅓	8
5	16½	25	20	16⅔	15	13⅓	11⅔	10
6	20	30	24	20	18	16	14	12
7	23½	35	28	23⅓	21	18⅔	16⅓	14
8	27	40	32	26⅔	24	21⅓	18⅔	16
9	30½	45	36	30	27	24	21	18
10	34	50	40	33⅓	30	26⅔	23⅓	20
11	37½	55	44	36⅔	33	29⅓	25⅔	22
12	41	60	48	40	36	32	28	24
13	44½	65	52	43⅓	39	34⅔	30⅓	26
14	48	70	56	46⅔	42	37⅓	32⅔	28
15	51½	75	60	50	45	40	35	30

*In estimating length of radiator allow ⅝ inch for each plug or bushing.

Width of section 7⅔ inches, width of legs 8¼ inches.

Saxon Sanitary Pedestal Radiator

Three Column

Plain—Round Top—For Steam or Water

No. of Sections	* Length 3½ in. per Section	HEATING SURFACE					
		44" in Height	38" in Height	32" in Height	26" in Height	22" in Height	18" in Height
		6 Sq. Ft. per Section	5 Sq. Ft. per Section	4½ Sq. Ft. per Section	3¾ Sq. Ft. per Section	3 Sq. Ft. per Section	2¼ Sq. Ft. per Section
2	6	12	10	9	7½	6	4½
3	9½	18	15	13½	11¼	9	6¾
4	13	24	20	18	15	12	9
5	16½	30	25	22½	18¾	15	11¼
6	20	36	30	27	22½	18	13½
7	23½	42	35	31½	26¼	21	15¾
8	27	48	40	36	30	24	18
9	30½	54	45	40½	33¾	27	20¼
10	34	60	50	45	37½	30	22½
11	37½	66	55	49½	41¼	33	24¾
12	41	72	60	54	45	36	27
13	44½	78	65	58½	48¾	39	29¼
14	48	84	70	63	52½	42	31½
15	51½	90	75	67½	56¼	45	33¾

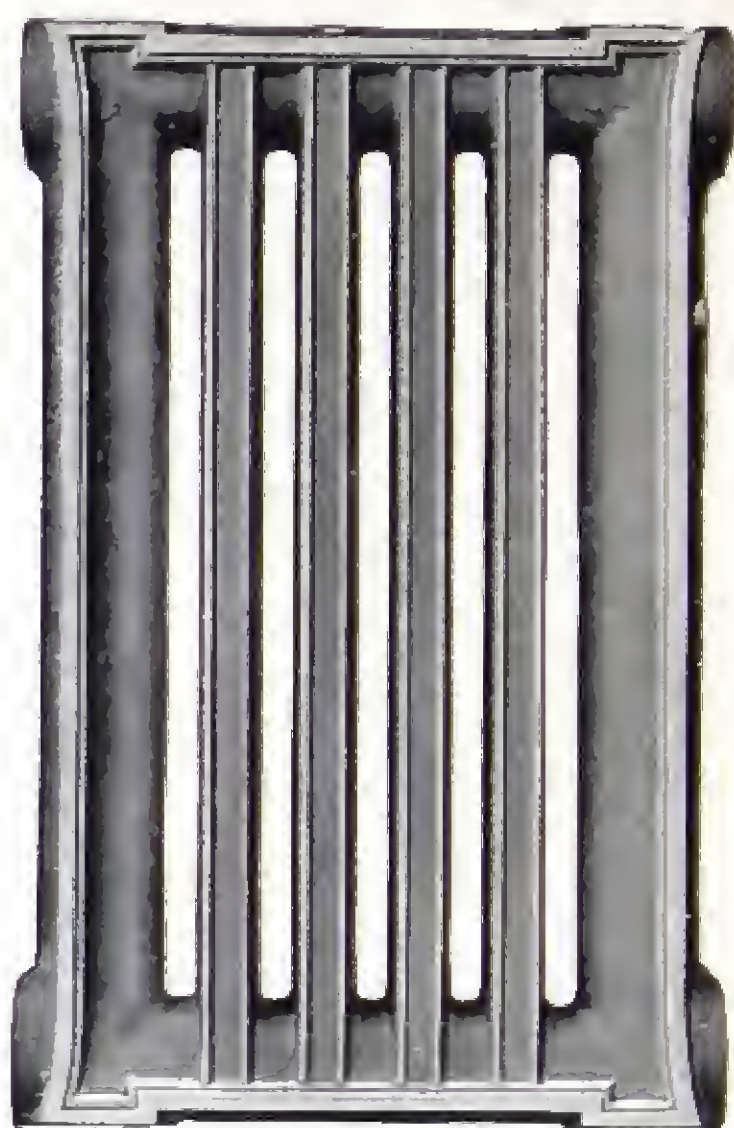
*In estimating length of radiator allow ⅝ inch for each plug or bushing.

Width of section 9 inches, width of legs 9¼ inches.

Peerless Wall Radiators

For Steam or Water

Peerless Wall Radiators should always be assembled with bars vertical to secure greatest heating efficiency. The 7- and 9-foot sections are therefore made in two styles: Nos. 7-A and 9-A have bars running crosswise of the section and are regularly tapped for connecting end

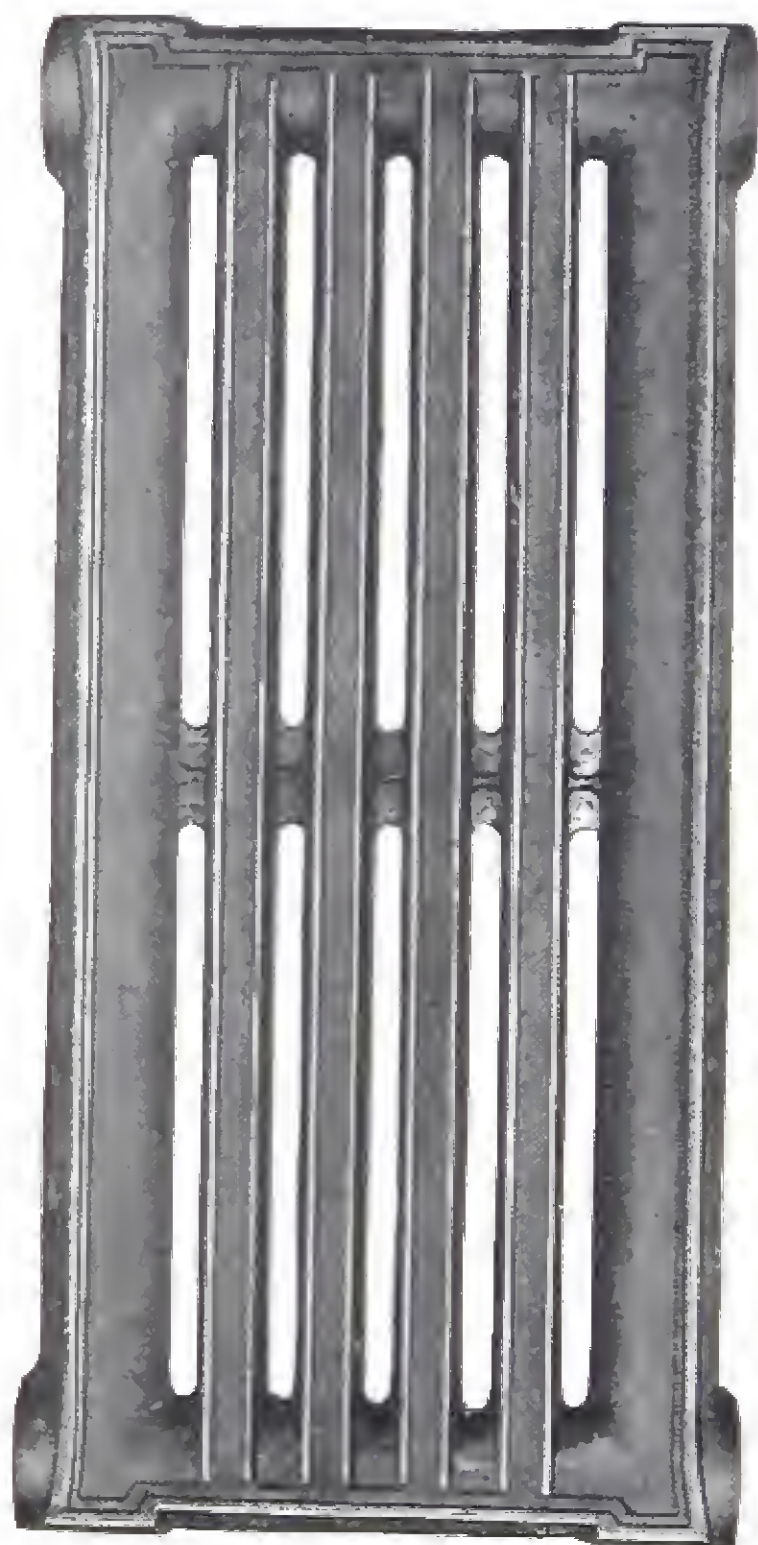


No. 7-B

to end as illustrated. Nos. 7-B and 9-B have bars running lengthwise of the section and are regularly tapped for connecting side by side as illustrated.

For Ratings and Measurements of Sections, see page 75.

For additional Measurements and Methods of Assembling, see pages 77 to 82 inclusive.



No. 9-B

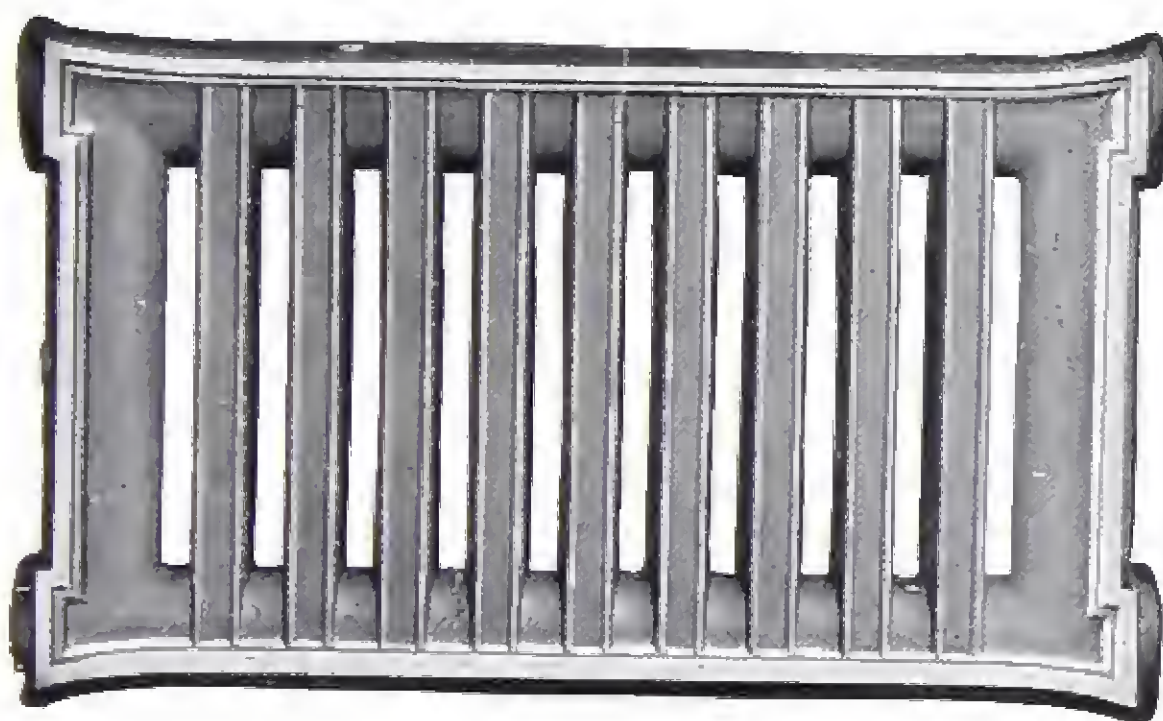
See page 86 for List Prices.

Peerless Wall Radiators—Continued

For Steam or Water



No. 9-A



No. 7-A

See page 86 for List Prices.

Rating and Measurement of Sections

Sections No.	Height Inches	Length or Width Inches	Thickness Inches	Thickness (with Bracket) Inches	Heating Surface Sq. ft.
7-A	$13\frac{5}{16}$	$21\frac{7}{8}$	$2\frac{7}{8}$	$3\frac{1}{2}$	7
7-B	$21\frac{7}{8}$	$13\frac{5}{16}$	$3\frac{1}{16}$	$3\frac{11}{16}$	7
9-A	$13\frac{5}{16}$	$29\frac{1}{16}$	$2\frac{7}{8}$	$3\frac{1}{2}$	9
9-B	$29\frac{1}{16}$	$13\frac{5}{16}$	$3\frac{1}{16}$	$3\frac{11}{16}$	9

Ontario Plain Wall Radiator

For Steam or Water



5-Foot Section



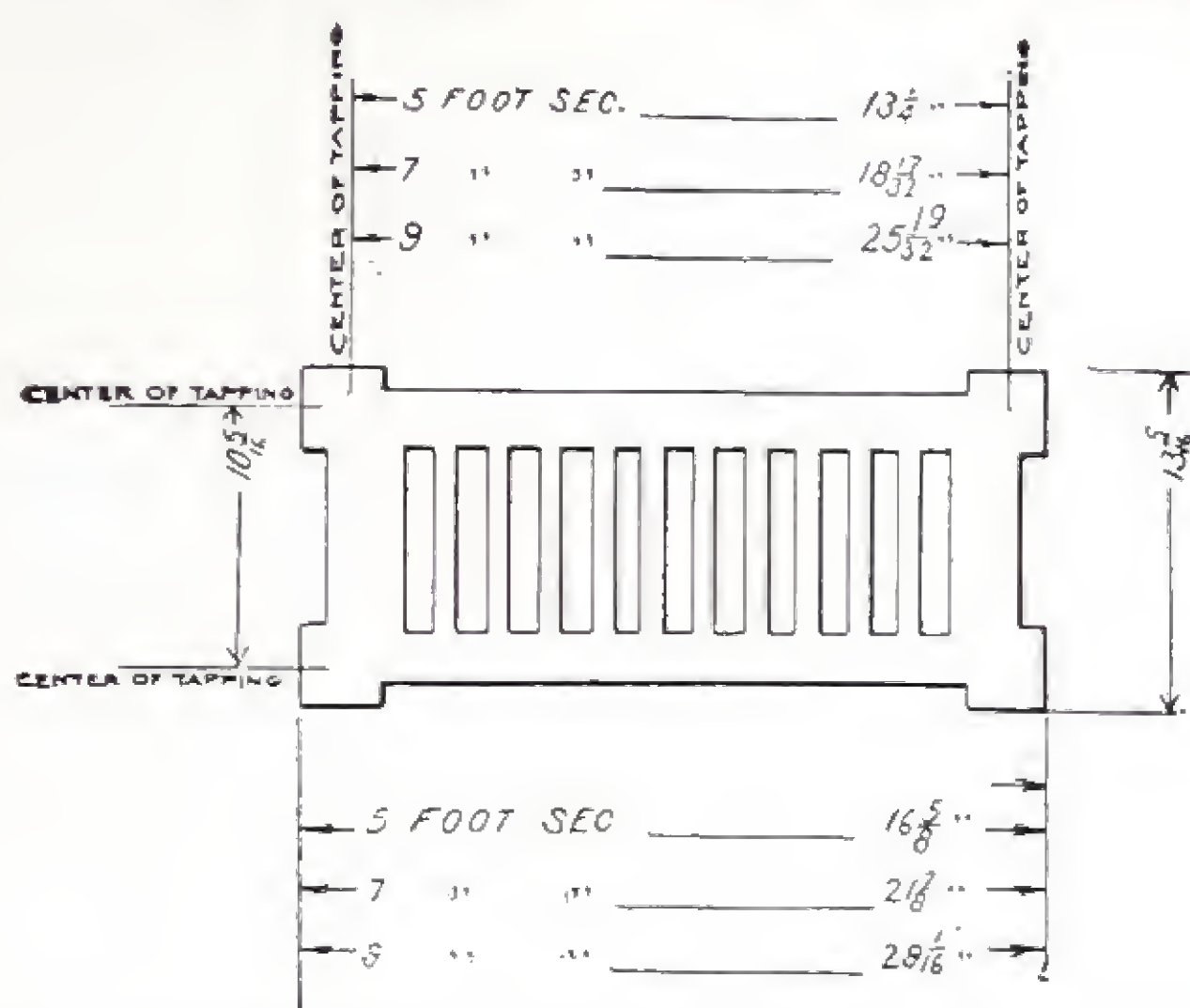
12-Foot Section

Capacities and Dimensions

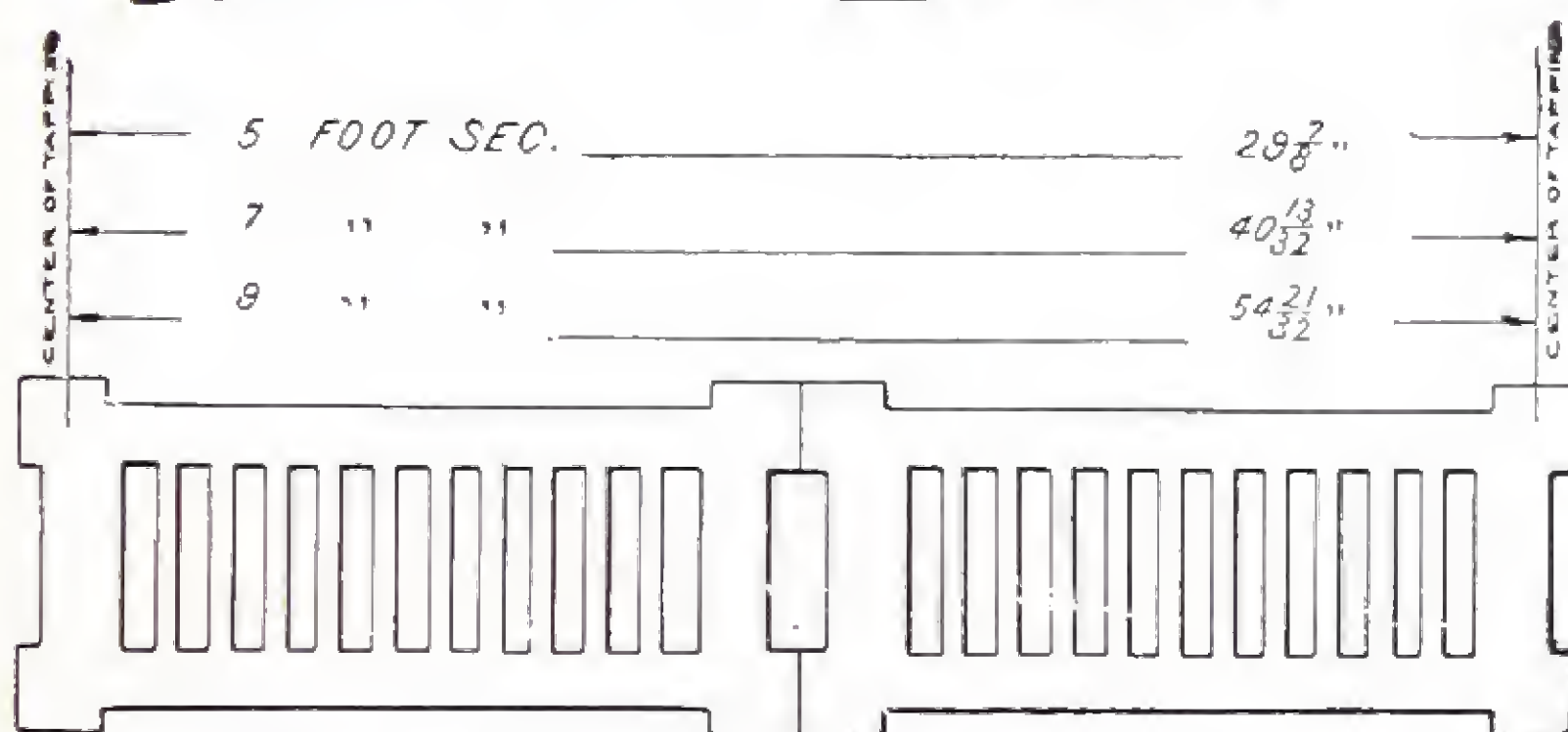
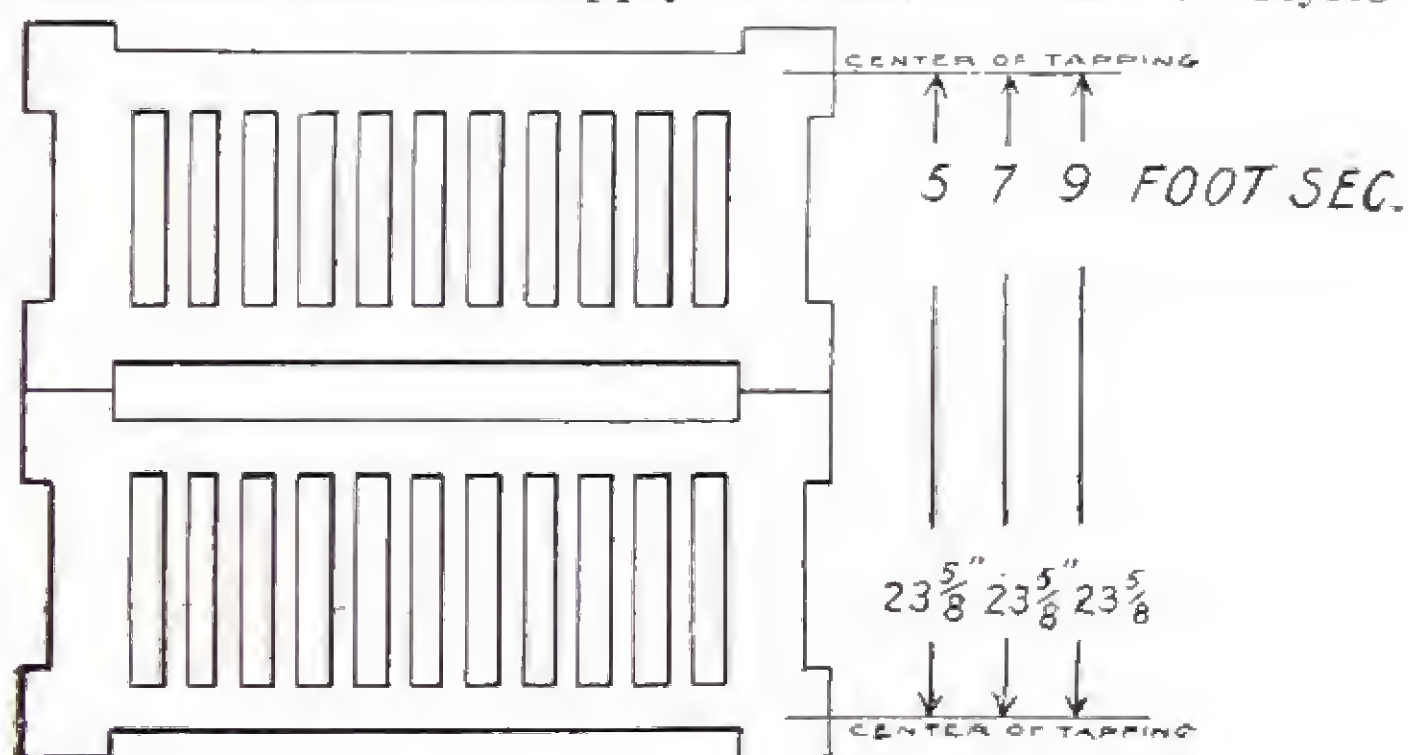
Pattern	Square Feet Heating Surface	Equivalent of 1" Pipe	Length Inches	Width Inches	Thickness Inches	Distance be- tween centers of Tappings Inches	
						End of Section	Side of Section
Ontario Plain.....	5	15	17	13	3	10	14 1/8
" ".....	7	21	24	13	3	10	21
" ".....	9	27	24	13	3 3/16	10	21
" ".....	12	36	28	15	3 5/8	11 1/16	24

See page 86 for List Prices.

Peerless Wall Radiator Measurements



Above measurements apply to either "A" or "B" styles



Note.—The regular tapplings of Peerless Wall Radiators, as shown on the following pages are indicated by Nos. 2, 3, 4, 5, 6, 7, 8 and 9. Nos. 20, 30, 40, 50, 60, 70, 80 and 90 indicate special tapplings which can be furnished if desired and for which an extra charge will be made. Tapplings are 1 1/2 inches, supply and return, and bushed as desired.

Peerless Wall Radiators—Continued

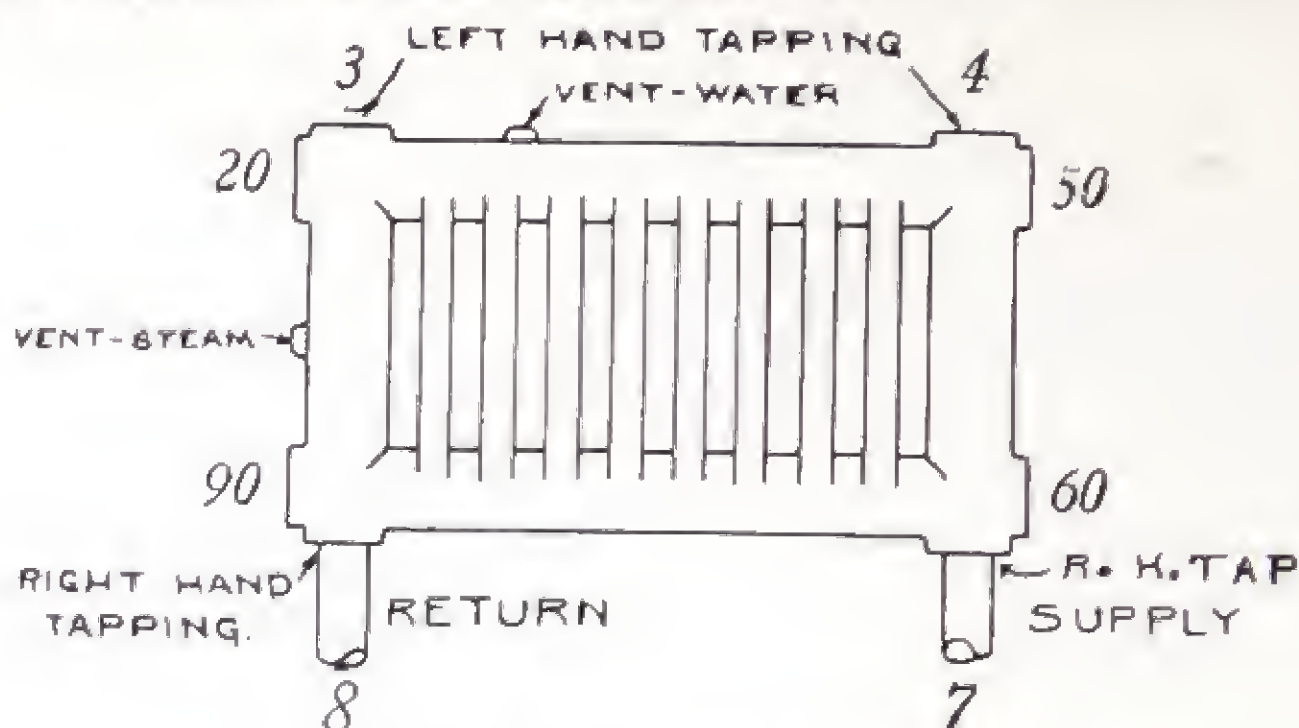


Fig. 1. Water and One- and Two-Pipe Steam

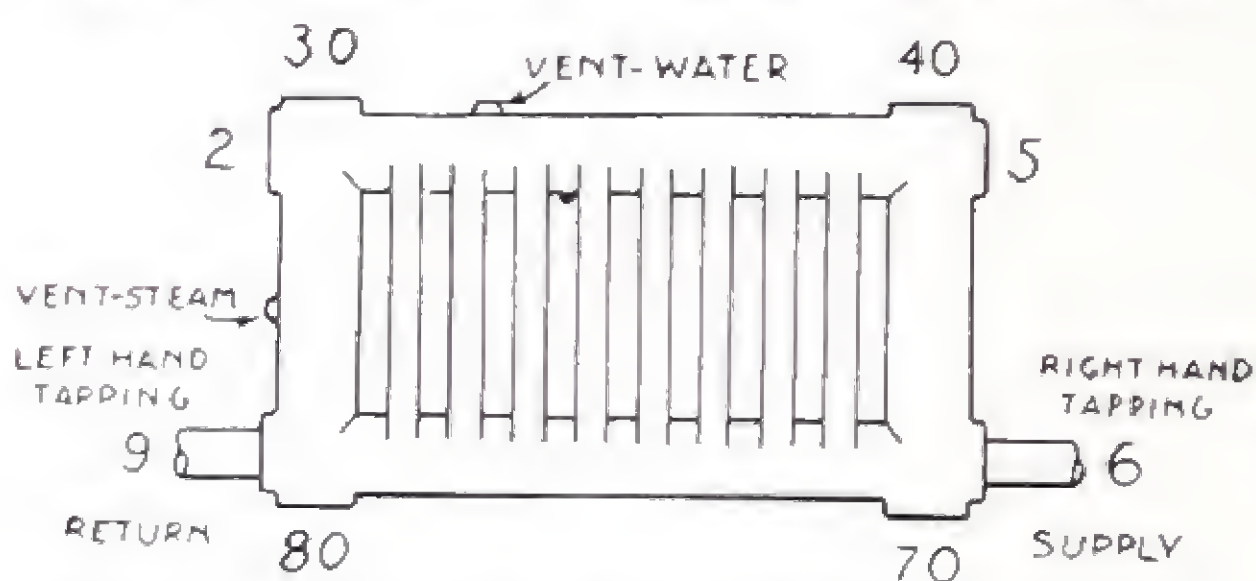


Fig. 7. Water and One- and Two-Pipe Steam

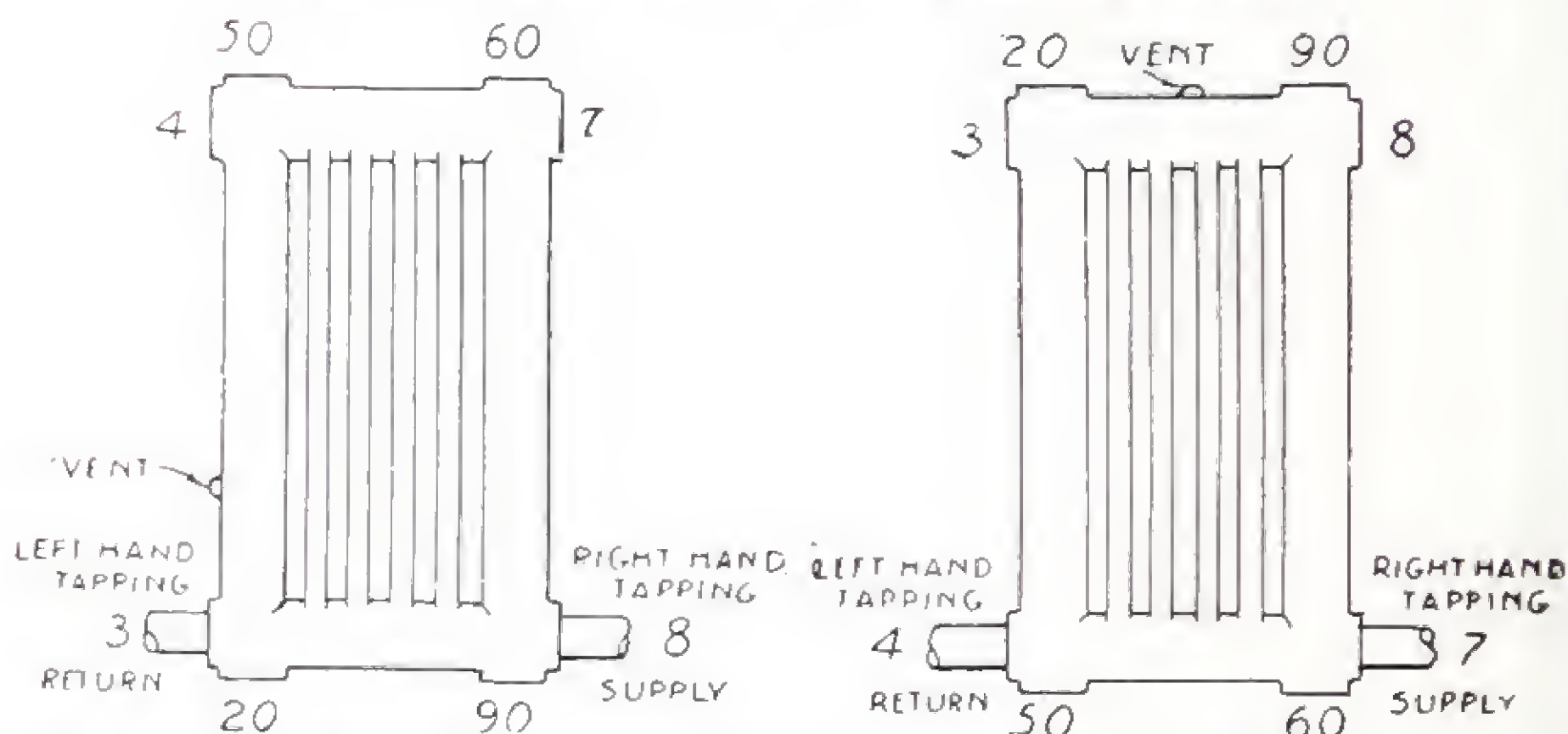


Fig. 4. One- and Two-Pipe Steam

Fig. 8. Water

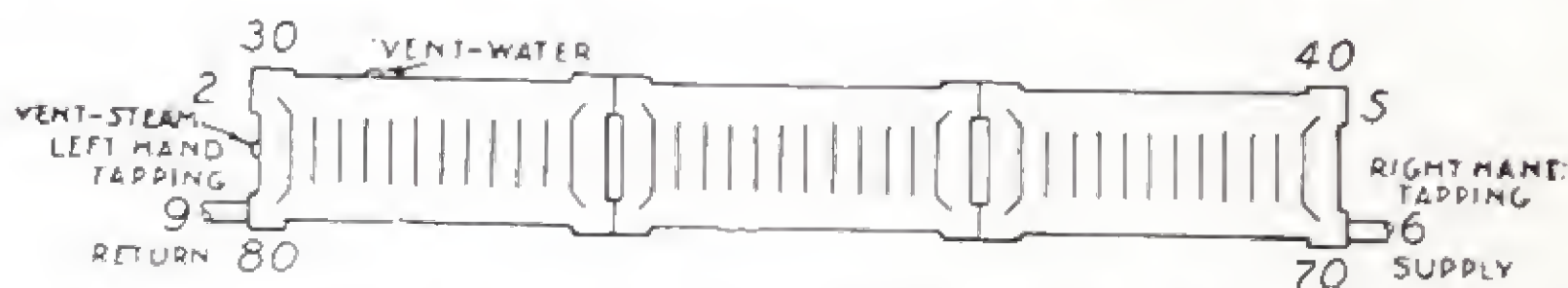


Fig. 11. Assembled Three Sections in Single Tier—Water and One- and Two-Pipe Steam

Peerless Wall Radiators—Continued

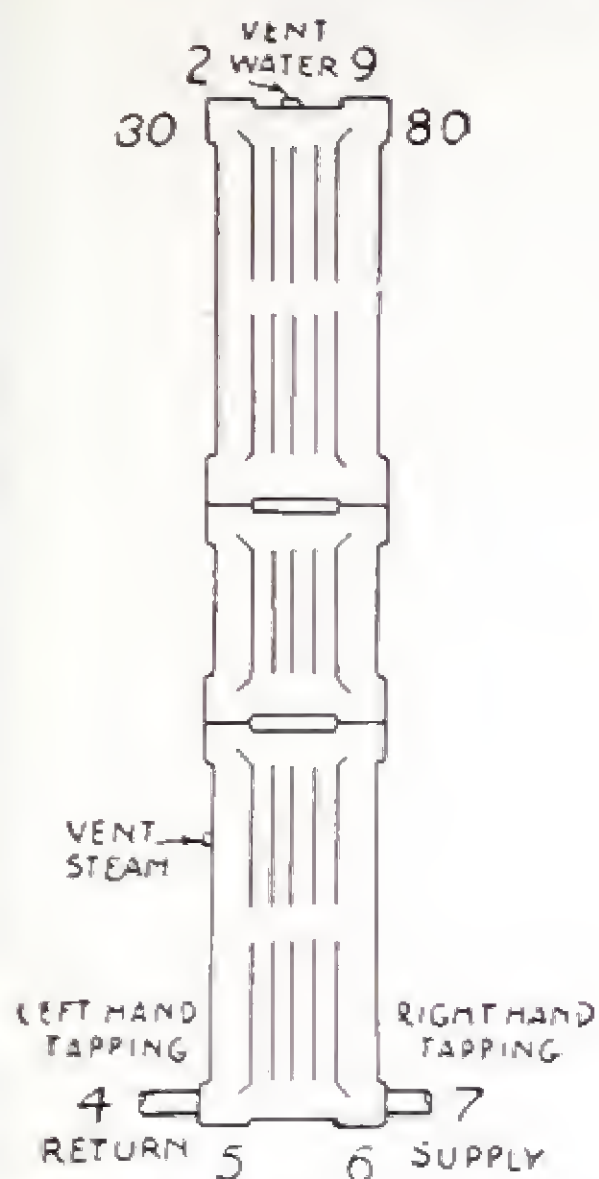


Fig. 13. Three Sections in 3 Tiers—Water and 1- and 2- Pipe Steam

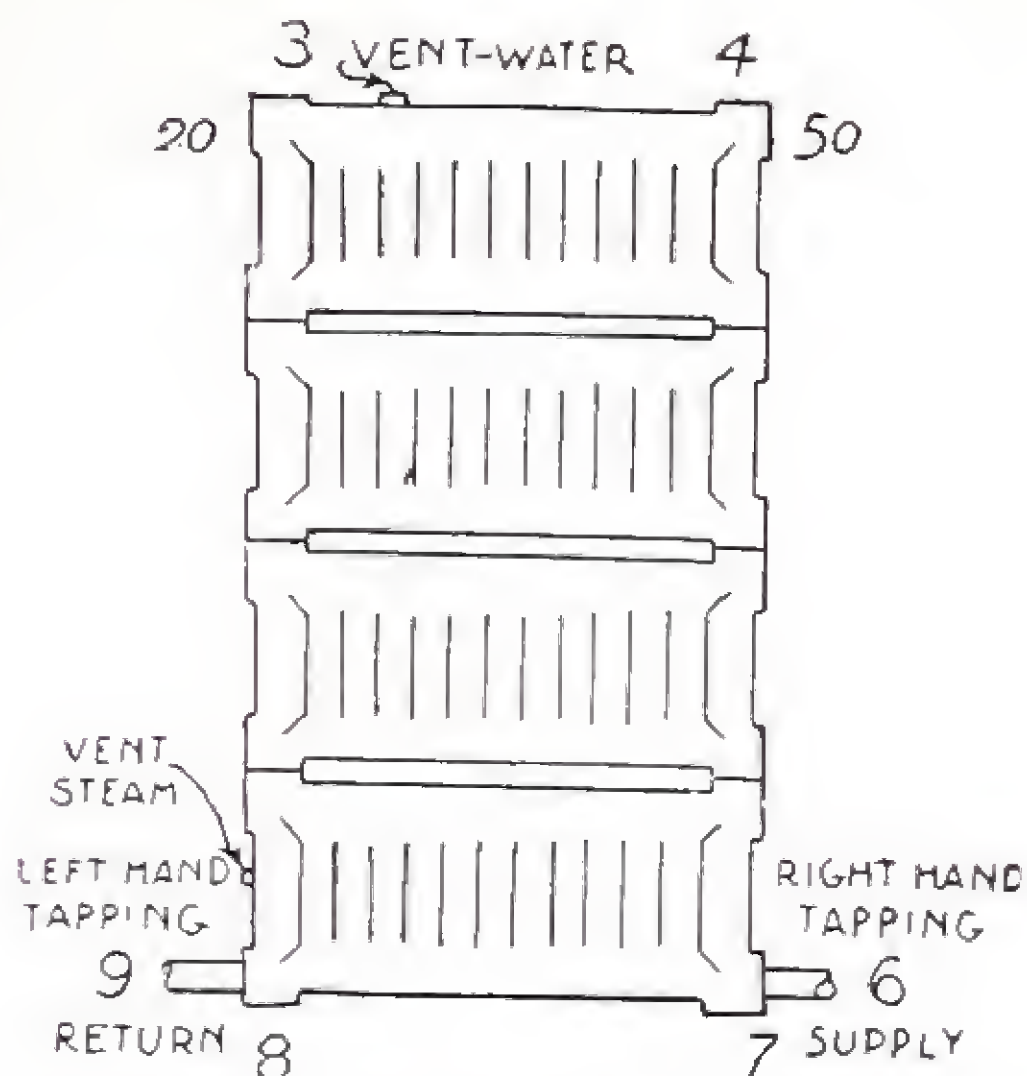


Fig. 15. Assembled Four Sections in Four Tiers—Water and One- and Two-Pipe Steam

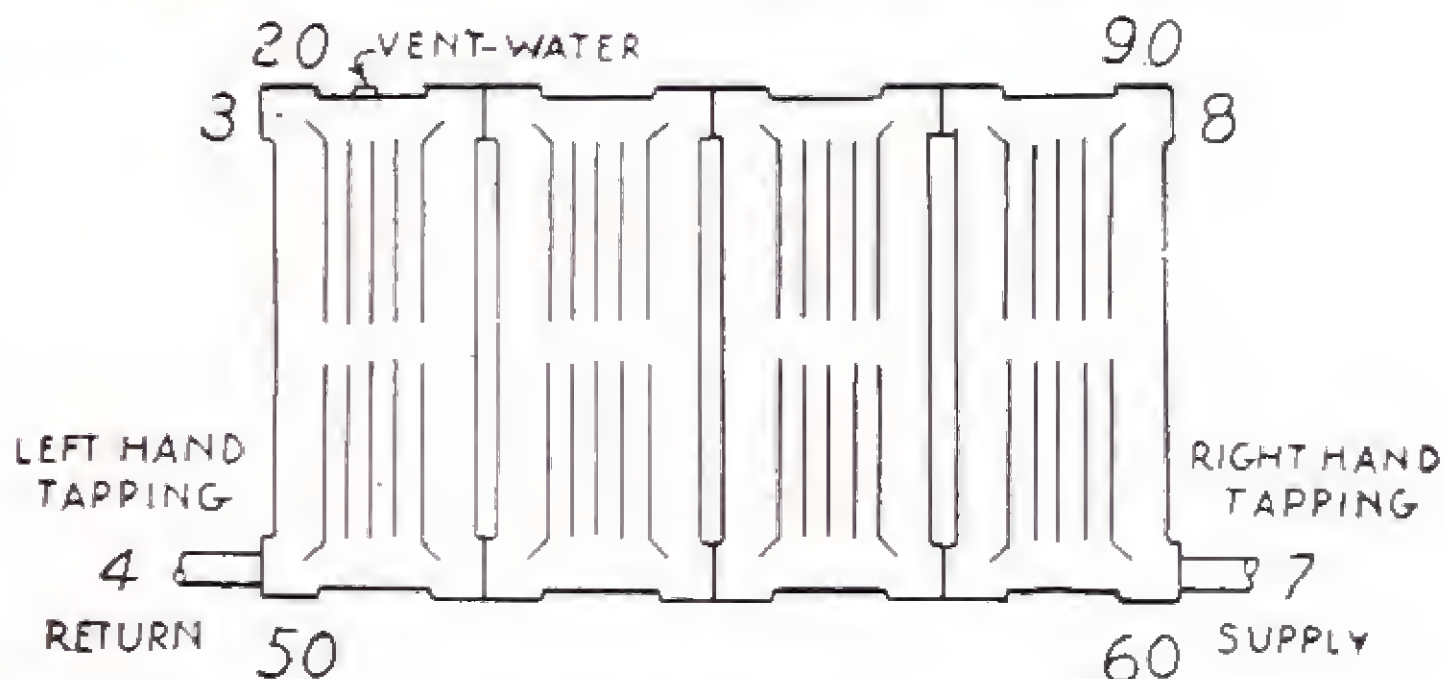


Fig. 17. Assembled Four Sections in Single Tier—Water

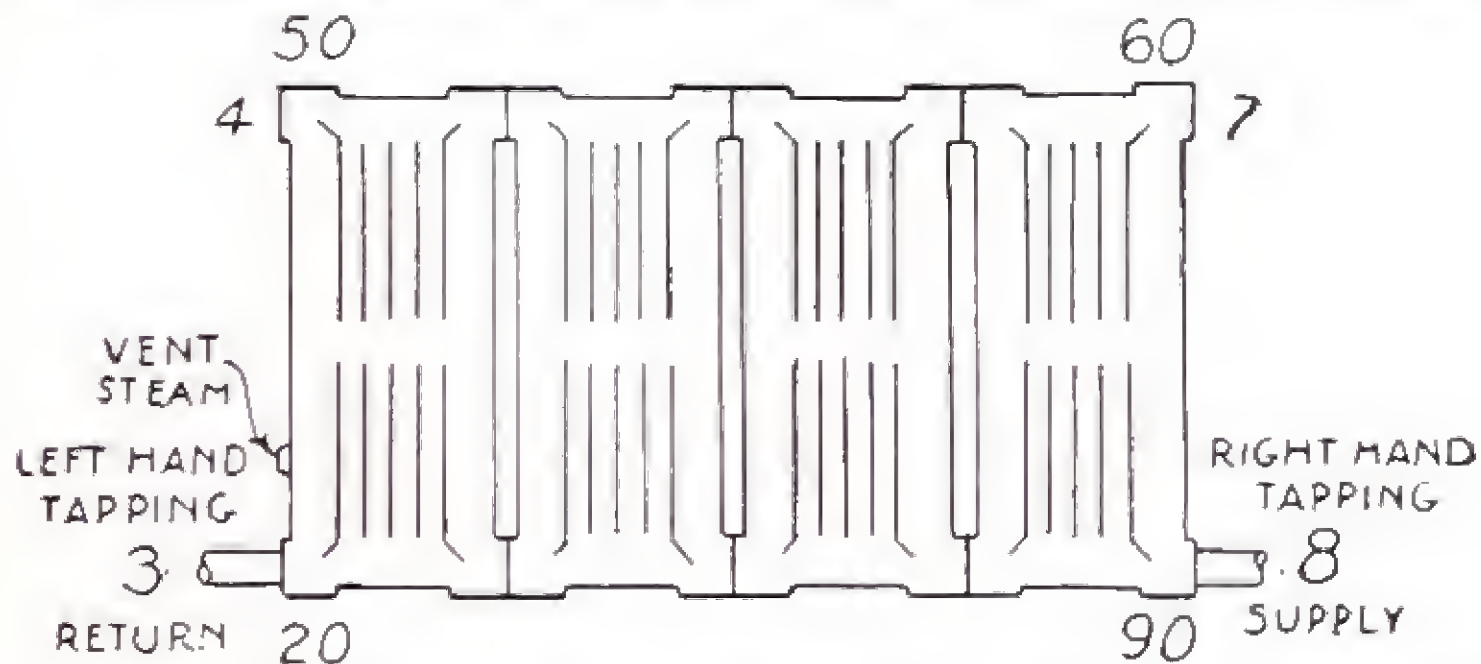


Fig. 18. Sections in Single Tier—One- and Two-Pipe Steam

Peerless Wall Radiators—Continued

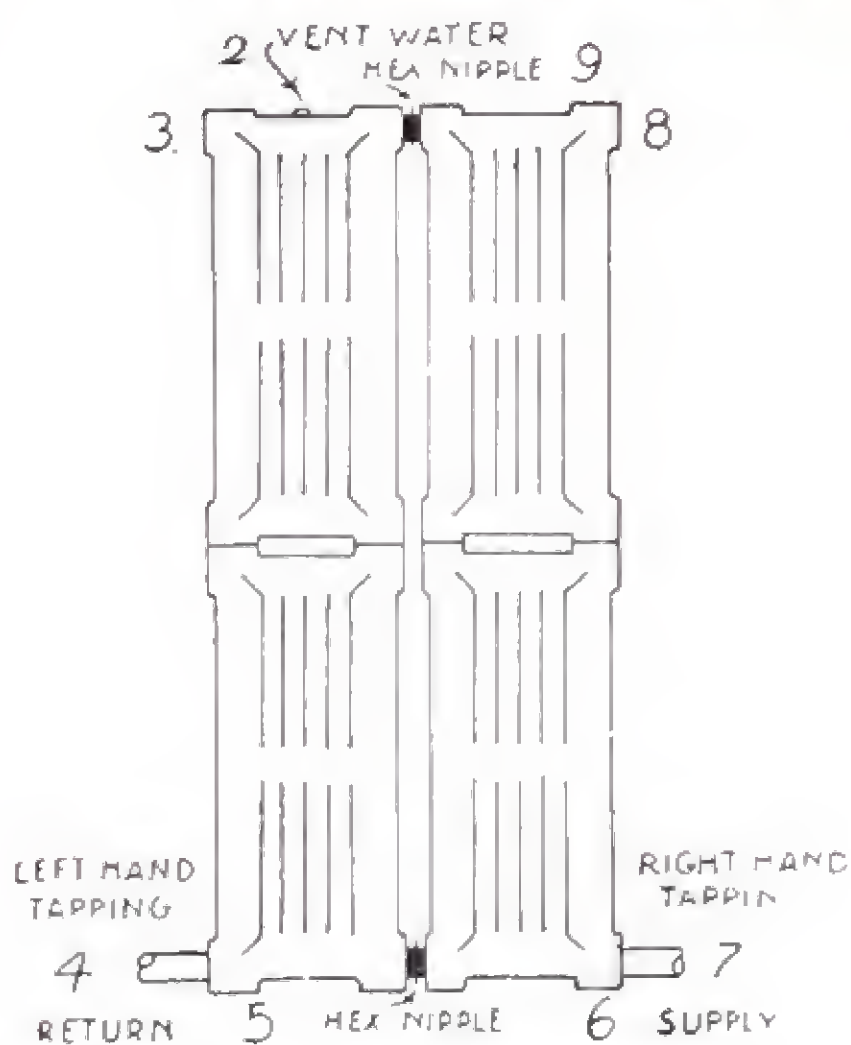


Fig. 19. Assembled Four Sections in Two Tiers—Water

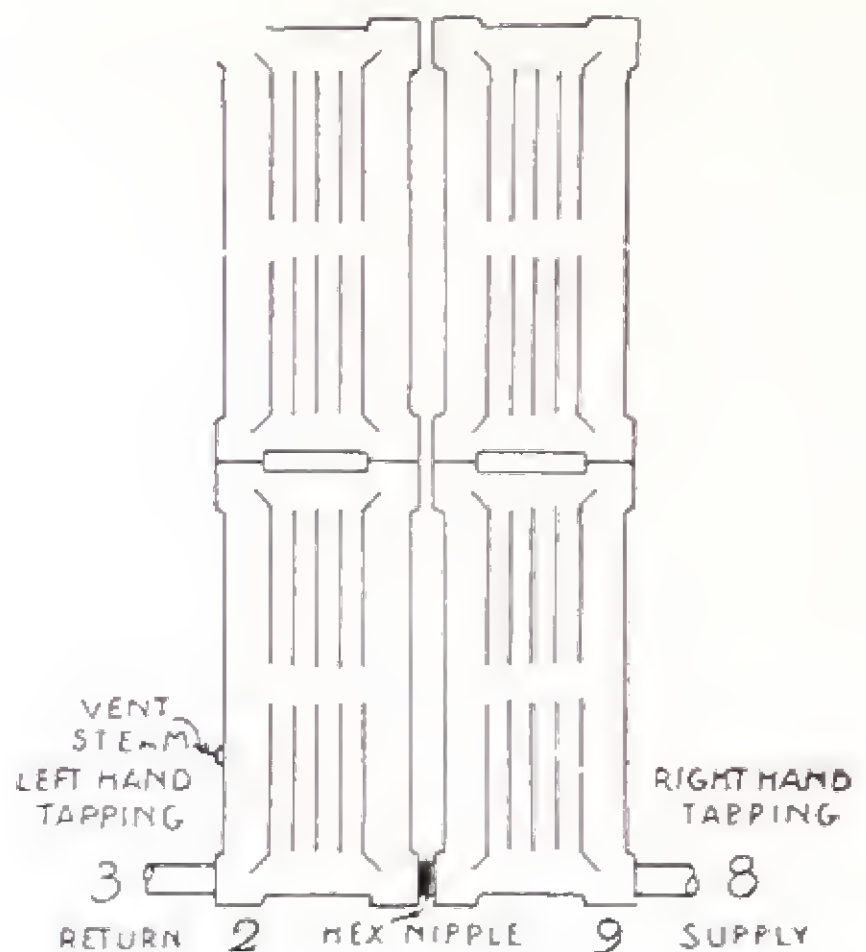


Fig. 20. Assembled Four Sections in Two Tiers—One- and Two-Pipe Steam

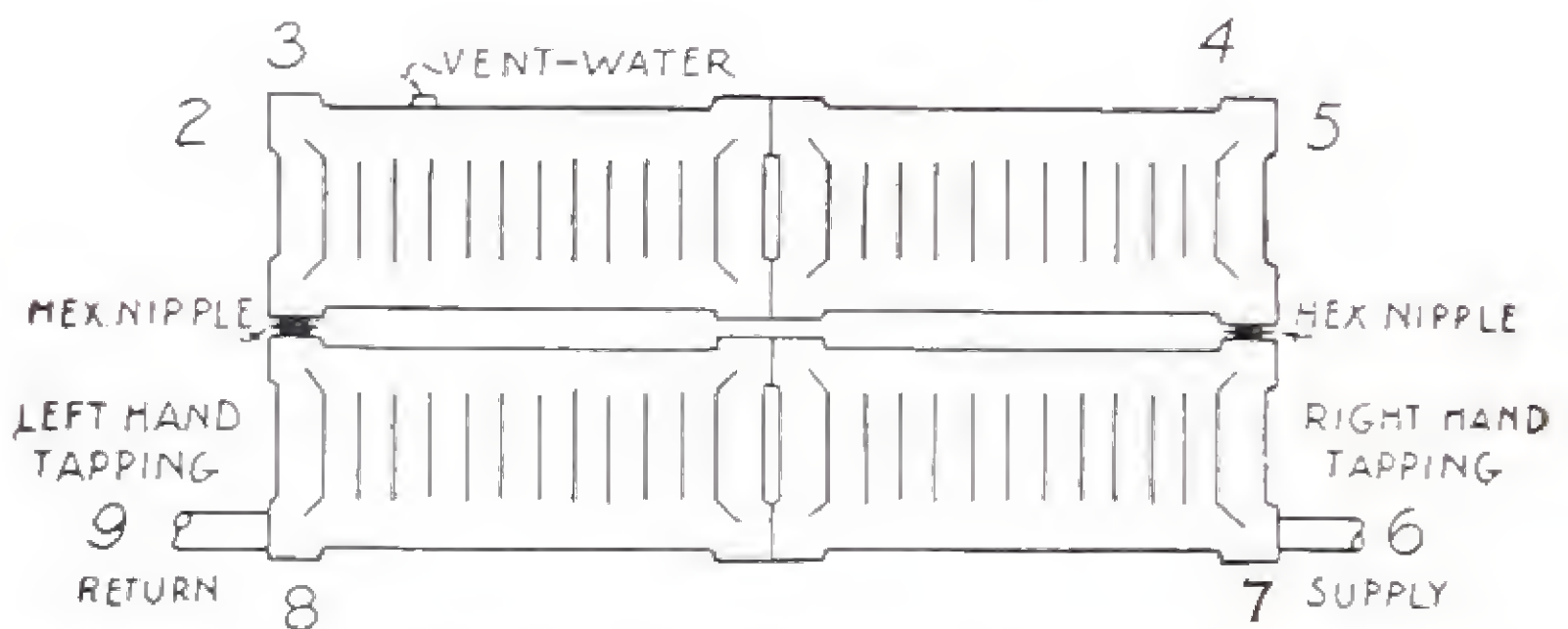


Fig. 21. Assembled Four Sections in Two Tiers—Water

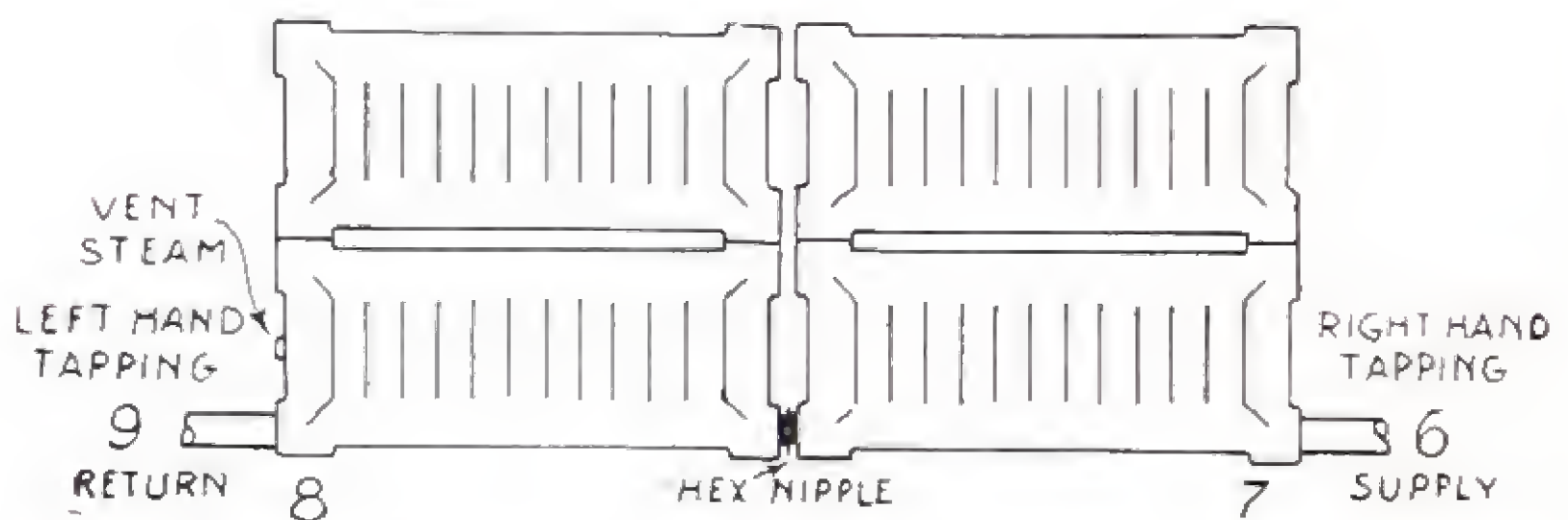


Fig. 22. Assembled Four Sections in Two Tiers—One- and Two-Pipe Steam

Peerless Wall Radiators—Continued

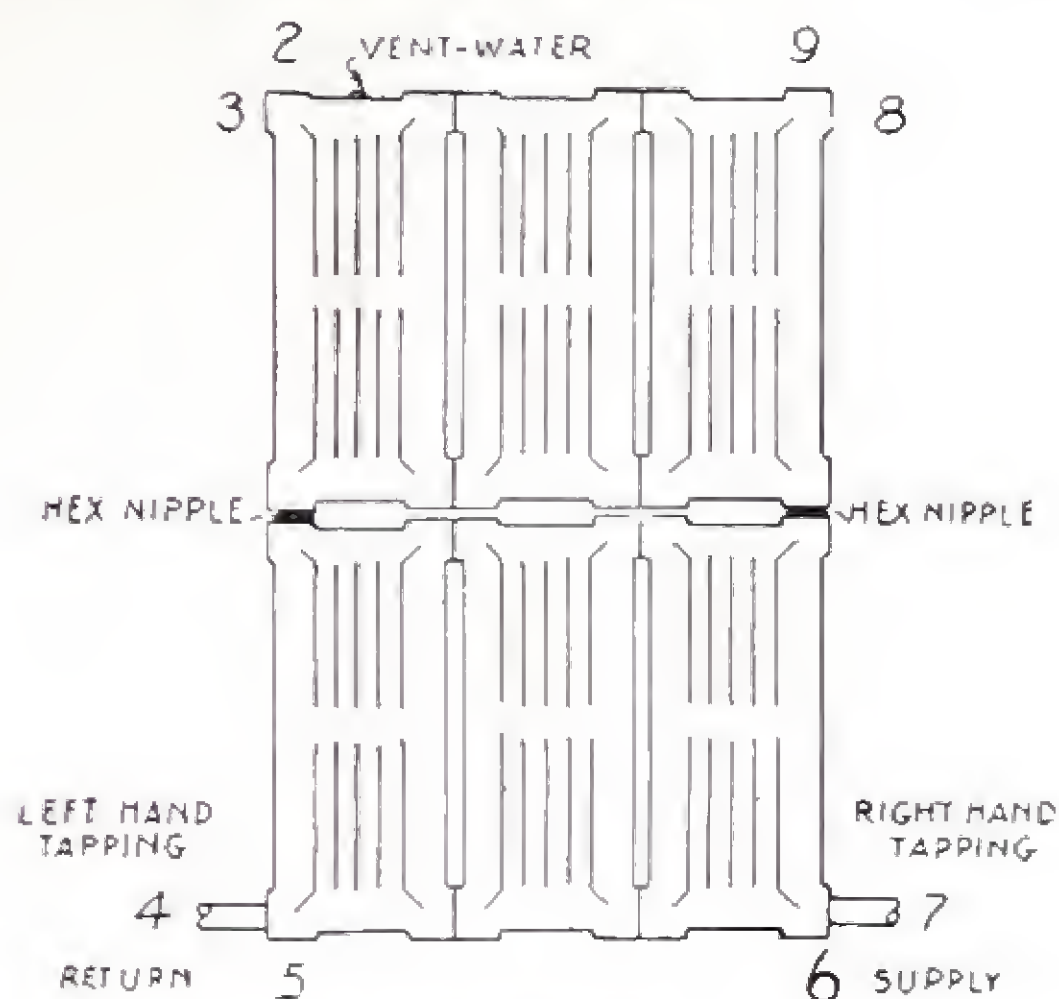


Fig. 25. Assembled Six Sections in Two Tiers—Water

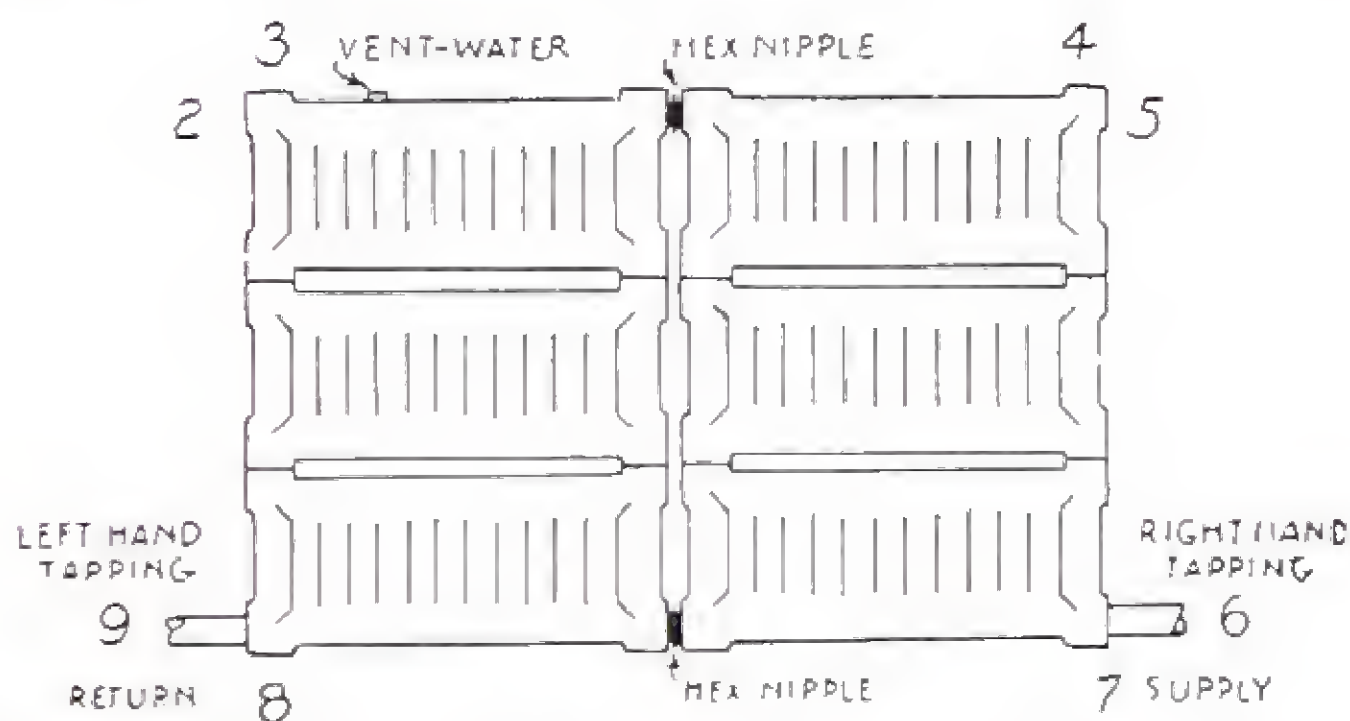


Fig. 27. Assembled Six Sections in Three Tiers—Water

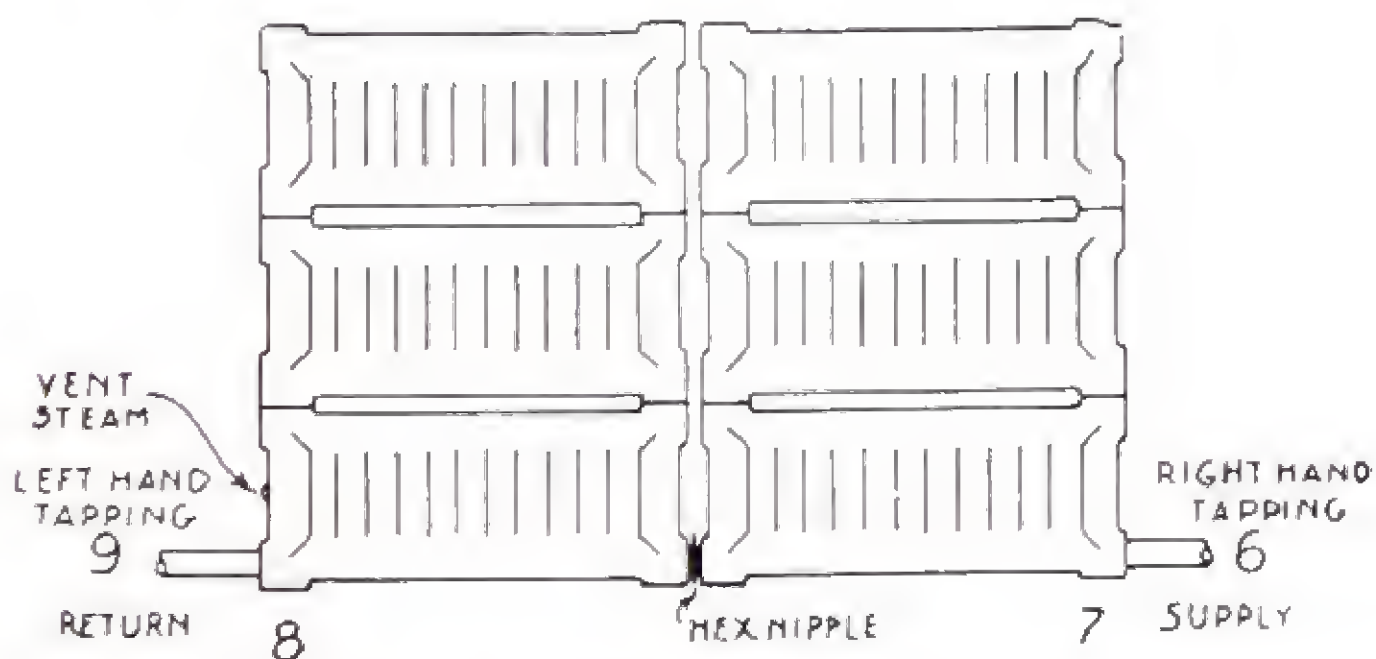


Fig. 28. Assembled Six Sections in Three Tiers—One- and Two-Pipe Steam

Peerless Wall Radiators—Continued

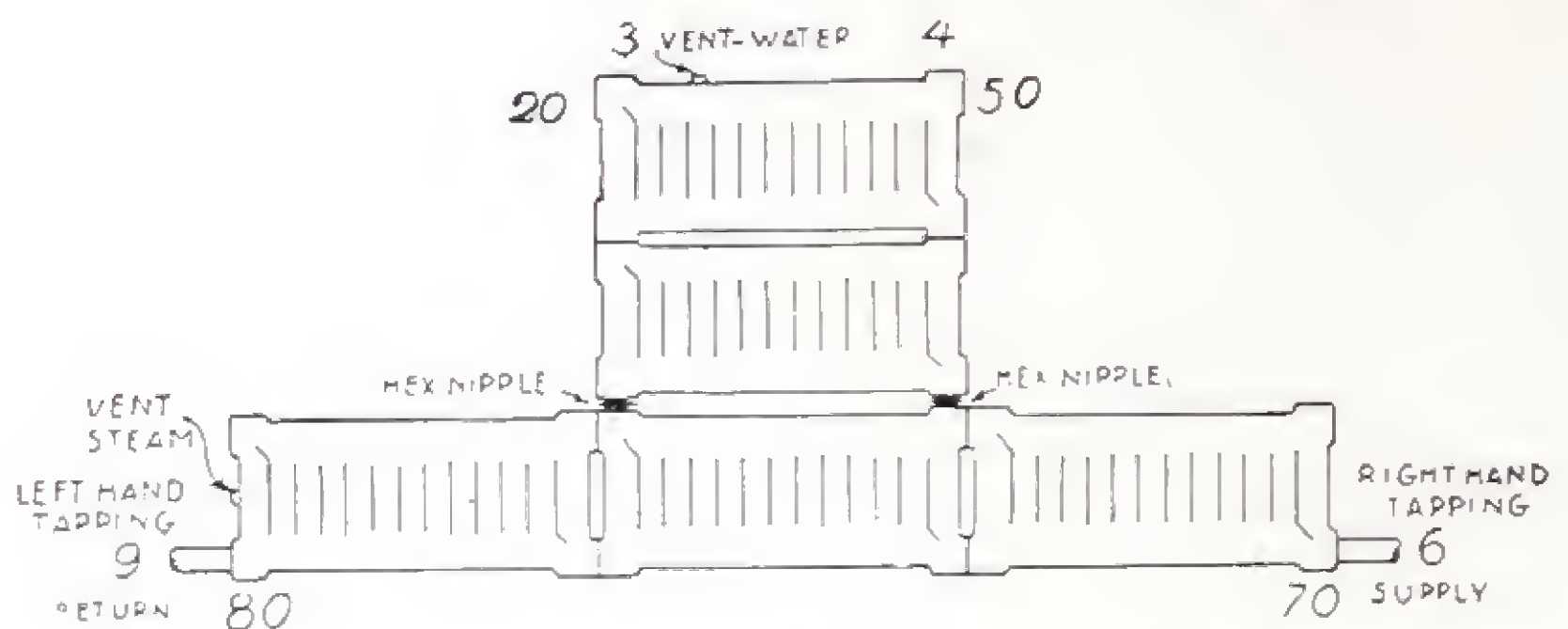


Fig. 23. Assembled Three and Two Sections with Three Tiers in Center—Water and One- and Two-Pipe Steam

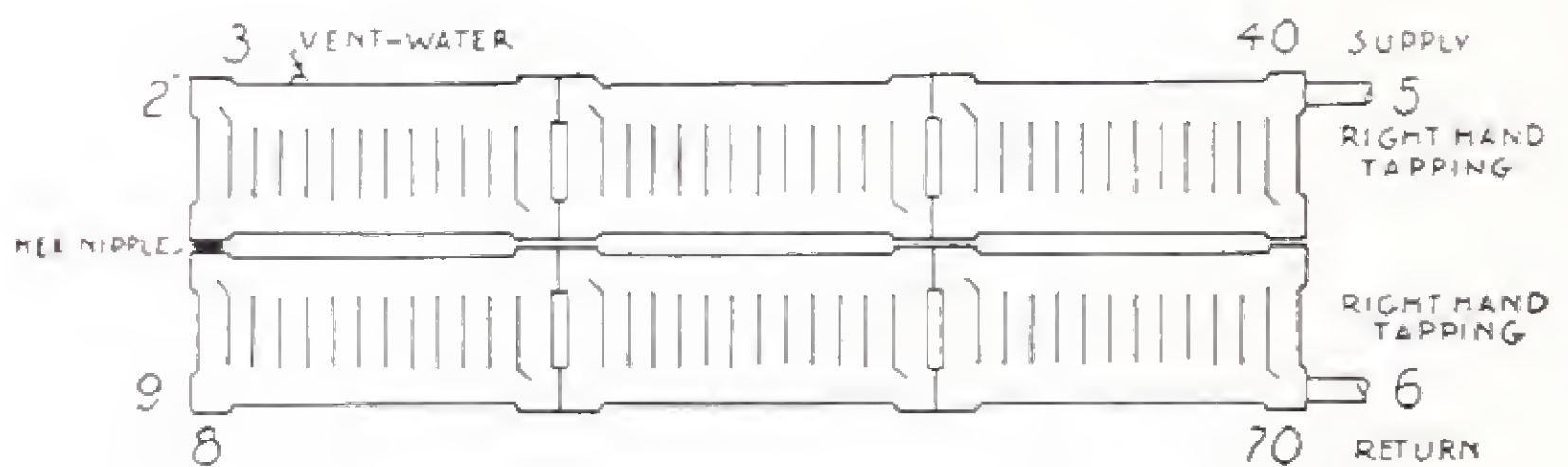


Fig. 31. Assembled Six Sections in Two Tiers—Water

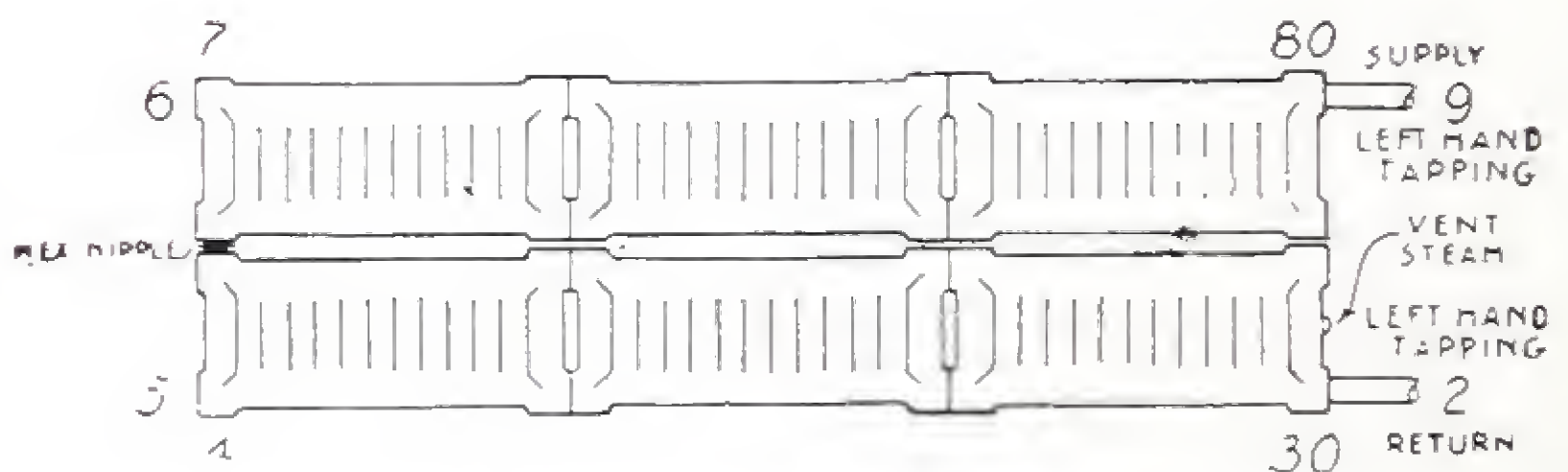
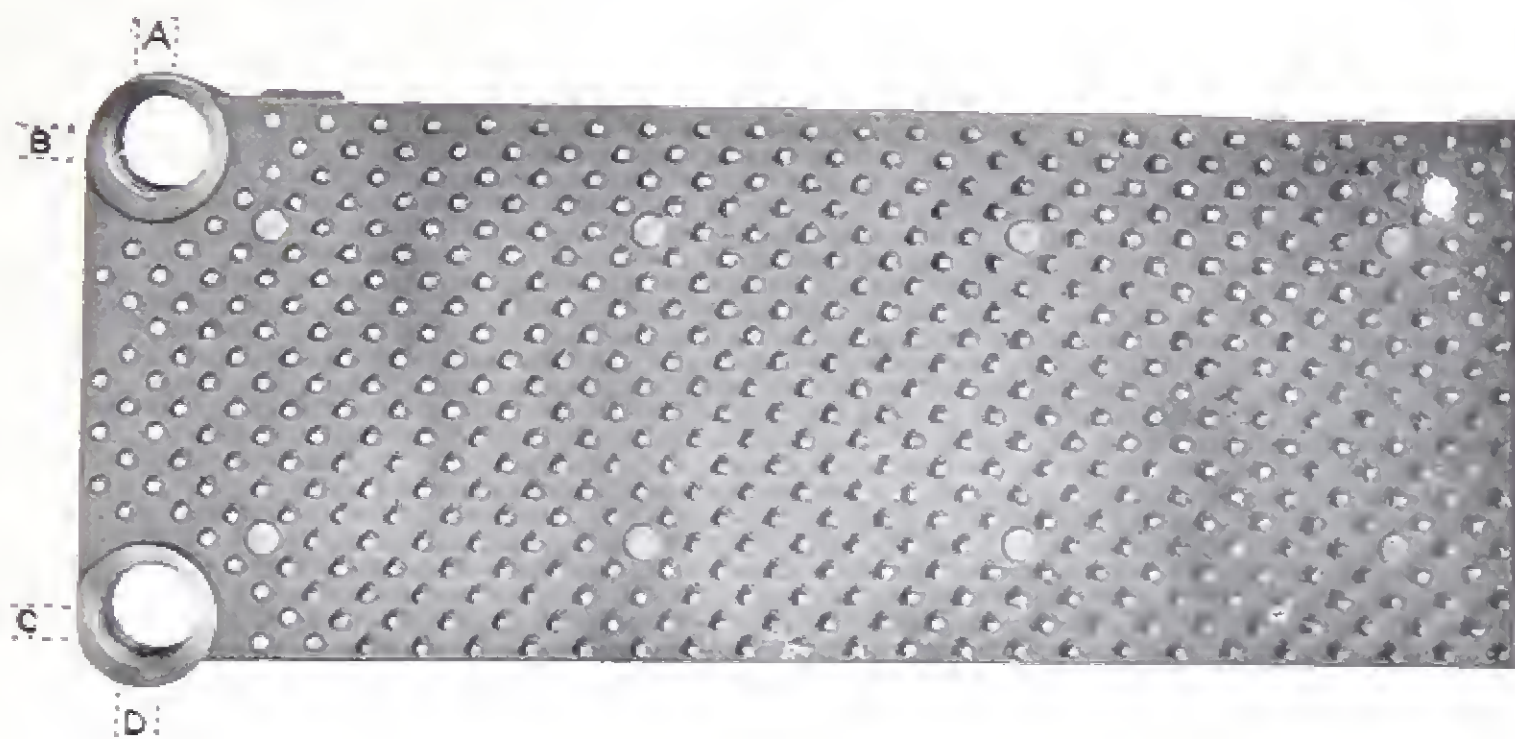


Fig. 32. Assembled Six Sections in Two Tiers—Two-Pipe Steam

Sanitary School Pin Indirect Radiators

For Steam or Water



Capacities and Dimensions

Name	Length in Inches	Height in Inches	Height of Con- necting Points	Width Occupied in Stack	Distance Center to Center Opening	Square Feet
School Pin.....	36	$13 \frac{7}{8}$	15	4"	$11 \frac{3}{8}$	20
" "	$34 \frac{3}{4}$	$11 \frac{1}{2}$	$13 \frac{3}{4}$	4"	$10 \frac{1}{8}$	15

School Pin Indirect sections (20 square foot sections) are connected with 2-inch right and left internal nipples.

School Pin Indirect sections (15 square foot sections) are connected with 2-inch right and left internal nipples.

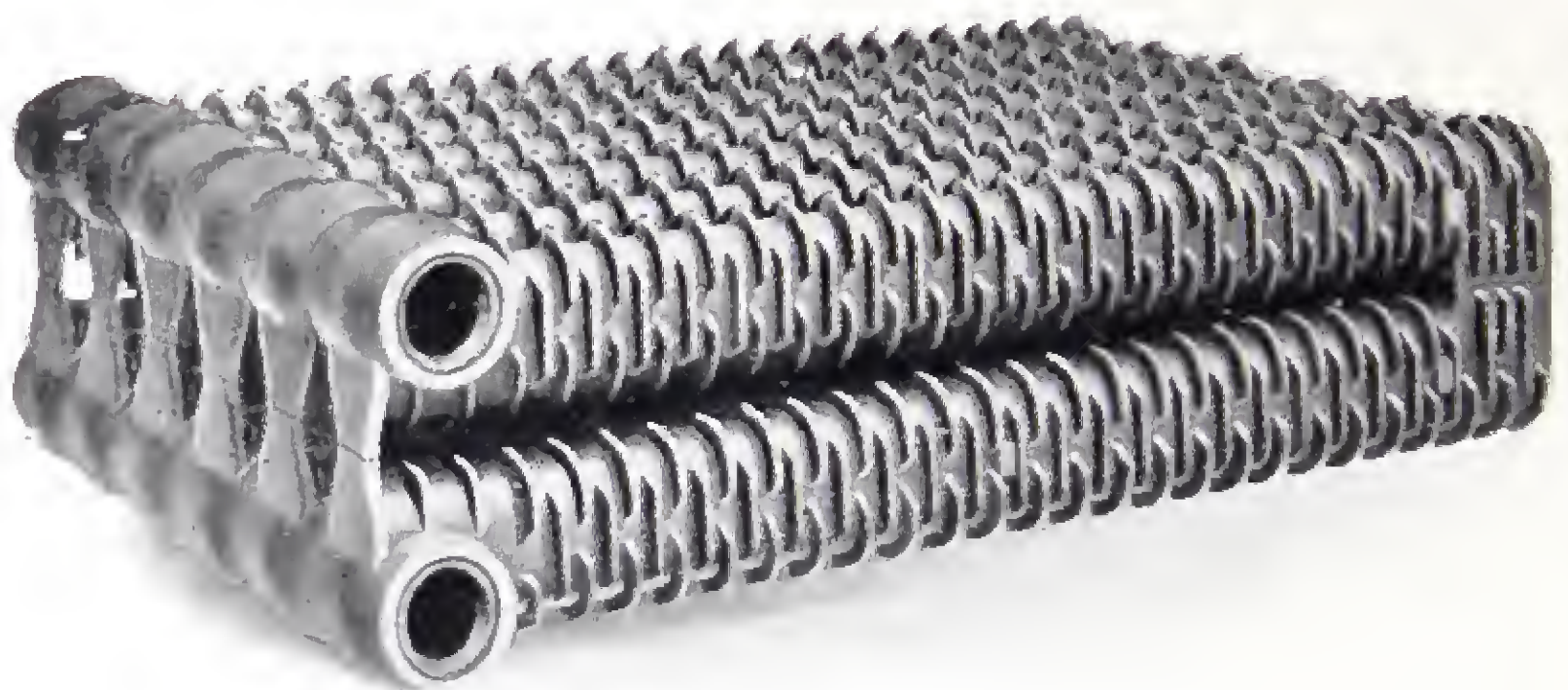
When tappings are A, B, C or D, add $\frac{1}{4}$ inch to height or length of section to allow for hub.

Sections will be shipped separately, unless orders specify that they are required assembled in stacks. When ordered assembled, they will be shipped in stacks of not more than six sections each.

See page 86 for List Prices.

Climax Indirect Radiators

For Steam or Water



Capacities and Dimensions

Name	Length in Inches	Height in Inches	Width in Inches	Distance Center to Center of Tapping	Number Square Feet
Climax.....	36	11	4	7	13

Climax Indirect sections are connected together at top and bottom with 2-inch right and left screw nipples.

For additional measurements, see page 85.

See page 86 for List Prices.

Climax Indirect Radiators

For Steam or Water

Data for Climax Radiators

Sec- tions in Stack	Sq. Feet of Heating Surface	Area Cold Air Supply Sq. Ins.	Area Hot Air Flue Sq. Ins.	Size for Brick- work Hot Air Flue, Ins.	Size Register Inches	Ratio 1 to 30	Ratio 1 to 35	Ratio 1 to 40
2	26	54	72	8x 8	9x12	780	910	1,040
3	39	72	96	8x12	10x14	1,170	1,365	1,560
4	52	90	120	8x12	12x15	1,560	1,820	2,080
5	65	108	144	12x12	12x19	1,950	2,275	2,600
6	78	126	168	12x12	14x22	2,340	2,730	3,120
7	91	144	192	12x16	14x24	2,730	3,185	3,640
8	104	162	226	12x16	16x20	3,120	3,640	4,160
9	117	180	240	12x20	16x24	3,510	4,095	4,680
10	130	198	264	12x20	20x20	3,900	4,550	5,200
11	143	216	288	12x24	20x24	4,200	5,005	5,720
12	156	234	312	12x24	20x24	4,680	5,460	6,240

Note:—Unless otherwise ordered we ship Climax Indirect Radiators over eight sections in two or more stacks.

List Prices per Square Foot of Radiation

TUBE AND COLUMN RADIATION

Height, Inches.....	45" to 38"	32"	30"	26"	23"	22"	20"	18"	17" or 16"	14" or 13'
List prices per sq. ft.	\$1.00	\$1.06	\$1.09	\$1.15	\$1.18	\$1.21	\$1.24	\$1.27	\$1.30	\$1.33

WALL RADIATION

Size.....	12 ft.	9 ft.	7 ft.	6 ft.	5 ft.
List prices.....	\$1.05	\$1.05	\$1.05	\$1.10	\$1.15

INDIRECT RADIATION

Capacity in Square Feet per Section.....	Climax 13 ft.	School Pin 15 and 20 ft.
List prices per sq. ft.	\$1.00	\$1.00

Technical drawings of various mechanical parts, labeled J through O. The parts include long vertical components (J, K, N), a small circular component (M), a small rectangular component (MM), a small vertical component (L), a small horizontal component (P), and a small vertical component (O). Each part is shown in a detailed, perspective view.

J-1 Bracket.....	9½ inches	List Price, Each	\$1.25
J-2 Bracket.....	7½ inches	" " "	1.25
J-3 Bracket.....	5½ inches	" " "	1.25

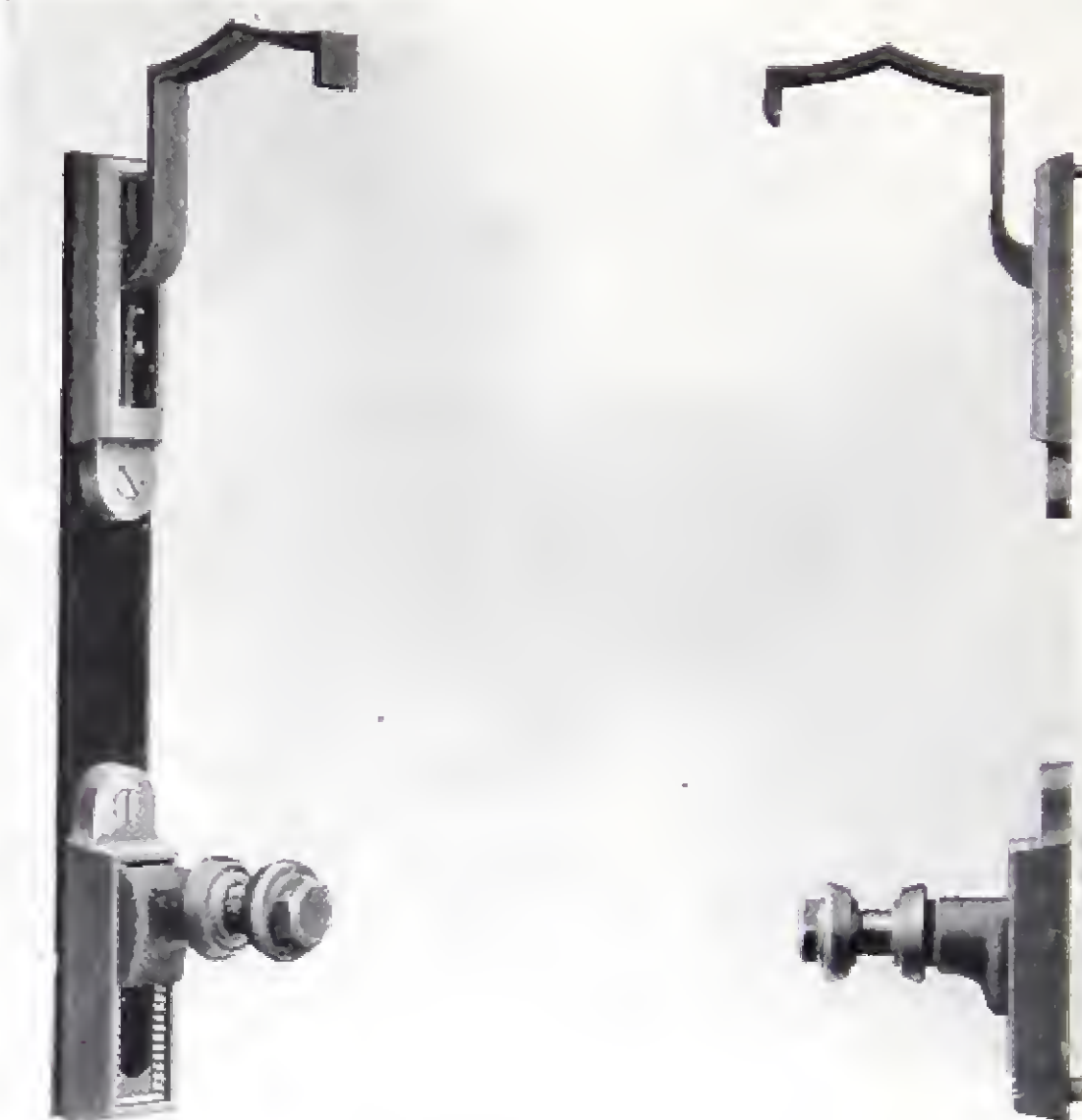
	Inches	List Price Each
K-1 Bracket (will fit over 11½-inch high baseboard)	16	\$1.25
K-2 Bracket " " 9½ " " "	14	1.25
K-3 Bracket " " 7½ " " "	12	1.25
K-4 Bracket " " 5½ " " "	10	1.25
K-5 Bracket " " 3½ " " "	8	1.25
K-6 Bracket " " 1½ " " "	6	1.25

L Bracket..	List Price 18c each	MM Bracket..	List Price 18c each
M " " "	18c "	O " " "	18c "

one $\frac{1}{4}$ -inch stove-bolt and one button. List Price 55c each
N Bracket.....
Ceiling Bracket "P": Made of cast plate, $3\frac{1}{2}$ inches diameter and
screwed to ceiling joists by four screws—not furnished by us. The
bolt furnished gives a distance of $3\frac{1}{2}$ inches to 5 inches from bottom of
Radiator to ceiling. Other length bolts can be furnished on special order.
P Bracket..... List Price 45c each

87

Arco Adjustable Wall Brackets



Made for all runs of wall radiators in factories, warehouses, theatres, railroad stations and other buildings, garages, schools, churches, residences—any building in which floor space is valuable and wall space available.

Brackets are made in one style only and with suitable bearing plates can be screwed to the wall to accommodate any possible assemblage of wall radiators.

By use of these brackets, which permit vertical adjustment of 2 inches, the fitter can adjust for "pitch" after they have been attached to the wall. The brackets set the outer face of the radiator $4\frac{3}{4}$ inches from the wall.

The spools on the bottom bracket allow a free horizontal movement of the radiators, thus taking care of any difference in "roughing in" measurements, and afford free-play for expansion and contraction. The V shape formed by the divided spool makes it impossible for the radiator to jump from the bracket.

The finger of the top bracket is set at its highest point and then screwed down to the radiator, merely guiding it and keeping it from tipping forward.

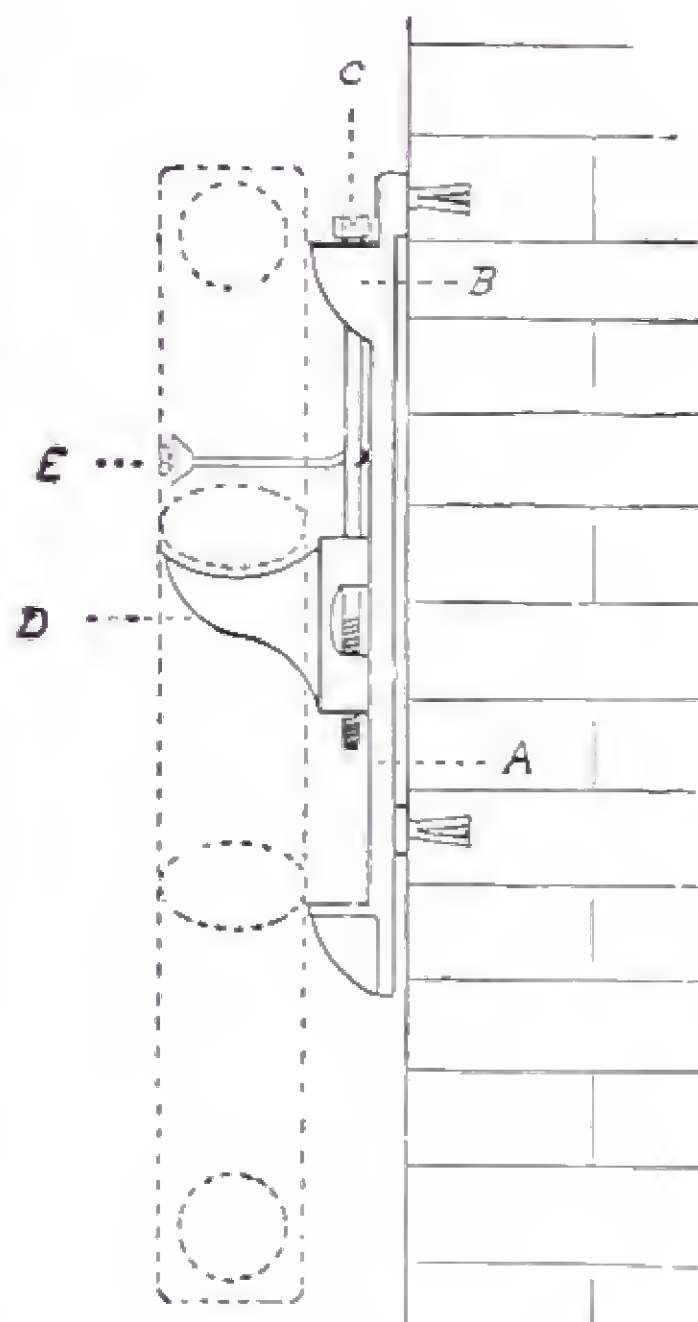
If heating contractor desires to furnish his own wrought iron bearing plates orders should so state, and measurements for holes to fasten the two brackets will be sent.

List Price, \$3.00 each.

Latest Improved Suspension Adjustable Safford Wall Radiator Brackets



V27 Vertical H26 Horizontal



A.—Wall Plate, anchored to wall by expansion bolts or screws.

B.—Saddle, through which passes a long screw.

C.—Bolt, having slotted head

D.—Hook, by which the radiator is supported.

E.—Tie Bolt.

These Brackets are the result of many years' experience; they may be attached to a brick, concrete or any other wall. They hold the radiator securely, and provide for all expansion and contraction. Being adjustable, they are easily raised or lowered by means of a screw bolt, before or after the radiator is in place. The range of adjustment is 3 inches up or down.

The recommended location of the locknut is midway of the thread on long bolt, from which point the radiator may be raised or lowered $1\frac{1}{2}$ inches.

For list price, see page 92.

No. H or V 28 Duck-Foot Suspension Safford Wall Bracket



Horizontal or Vertical

This support has the same features of adjustment and allowance for expansion and contraction as the No. V 27 Wall Suspension Bracket, but is provided with an extension to rest on floor.

Has no offset for baseboard.

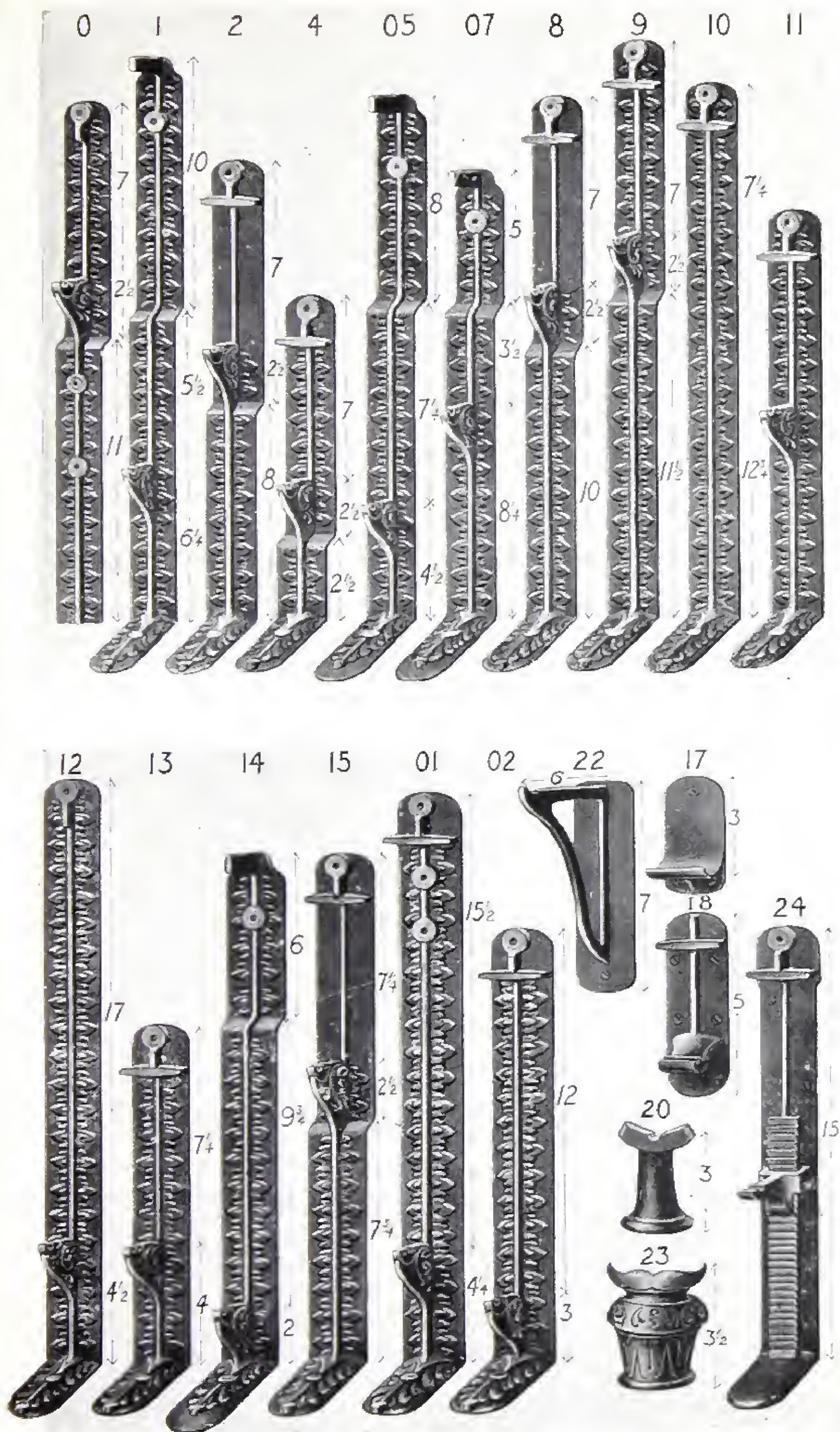
Height of center of tapping from the floor $8\frac{3}{4}$ inches.

Regularly furnished with one screw hole at top to secure bracket to wall, and one through foot to secure to floor.

When ordering the No. V 27 Suspension Wall Bracket, or the No. H or V 28 Duck-Foot Suspension Bracket separately, state whether for Vertical or Horizontal Radiators; also size of section.

For list price, see page 92.

Safford Radiator Wall Brackets



No. 24 Adjustable Bracket can be adjusted to any height above floor from 3 to 9 inches. For list price, see page 92.

List Price Safford Wall Radiator Brackets

F.O.B. Toronto, Ont.

No. or Style

Nos.....	"C"	0	1	2	4	05	07	8	9	10	11	12	13	14
Price, each	\$0.10	.50	.50	.45	.40	.50	.45	.50	.50	.50	.45	.50	.40	.45
Nos.....		15	01	02	22	20	17	18	23	24	30	31	32	33
Price, each.....	\$0.45	.50	.45	.20	.20	.08	.10	.30	.60	.28	.50	.60	.60	
Concealed Brackets, each.....														List 50 cts.
12-foot Wall, Top, each.....														List 50 cts.
12-foot Wall, Bottom, each.....														List \$1.00
Wrought Iron Hangers, each.....														List 60 cts.
Wall Radiator Buttons (No Screws), each.....														List 03 cts.
Wall Radiator Buttons with 5-in. Wood Screws, each.....														List 15 cts.

Latest Improved Suspension Adjustable Safford Wall Radiator Brackets

F.O.B. Toronto, Ont.

For 6, 7 and 9 foot Ontario Sections.

No.		List Price
H.26	Horizontal, Bottom Hook.....	\$2.00
H.34	Horizontal, Bottom Hook with Duck Foot.....	3.00
V.27	Vertical, Centre Hook.....	2.00
V.28	Vertical, Centre Hook with Duck Foot.....	3.00
V.35	Vertical, Bottom Hook.....	2.50
V.36	Vertical, Bottom Hook with Duck Foot.....	3.00

No. For 7 and 9 foot Standard Sections.

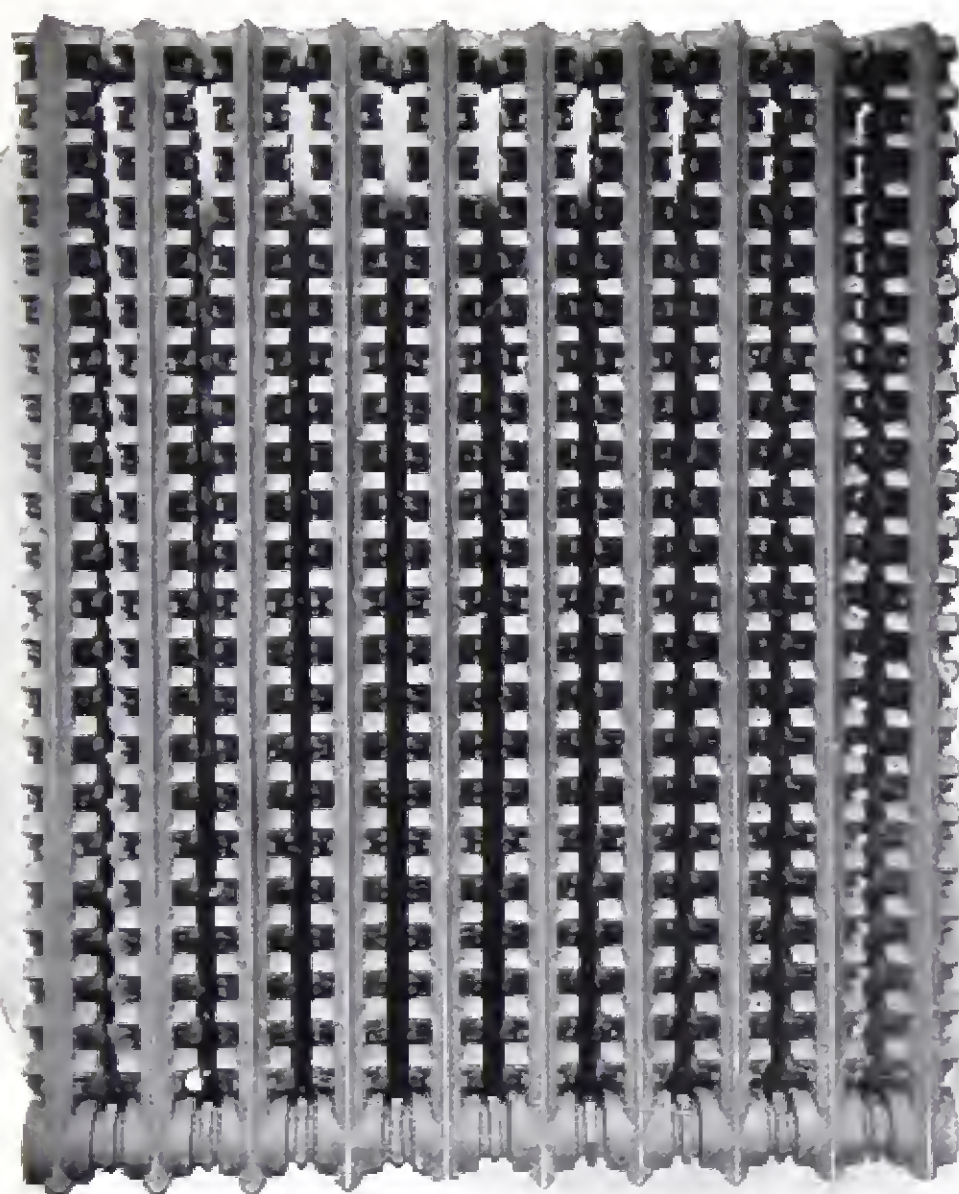
H.37	Horizontal, Bottom Hook.....	\$2.00
H.38	Horizontal, Bottom Hook with Duck Foot.....	3.00
V.39	Vertical, Bottom Hook.....	2.50
V.40	Vertical, Bottom Hook with Duck Foot.....	3.00

No. For 12 foot Sections.

H.41	Horizontal, Bottom Hook.....	\$3.00
V.42	Vertical, Centre Hook.....	3.00
V.29	Vertical, Bottom Hook.....	3.50
V.43	Vertical, Bottom Hook with Duck Foot.....	4.00
V.44	Vertical, Bottom Hook with extra long Duck Foot...	4.50

Vento Cast-Iron Heaters

For Fan and Blower Work



Front View of Ten-Section Stack

Made for Steam or Water, in 30-, 40-, 50-, 60-, and 72-inch Sections. A great improvement over pipe coils for heating and ventilating work; also for drying work in lumber kilns, laundries, hotels, factories, mills, etc.

Note:—40", 50" and 60" manufactured at Brantford, Ont. 30" and 72" imported from United States.

Leading Features

Few Parts: Section consists of three parts—main casting and two hexagon nipples. The equivalent coil consists of a base, eight risers, four nipples and eight elbows, or a total of twenty-one pieces—a difference in favor of the Vento Section of 1 to 7.

Few Joints: Section is complete with four screwed joints. The equivalent pipe coil requires twenty-four screwed joints, or a difference in favor of the Vento Section of 1 to 6, or one-sixth as many joints.

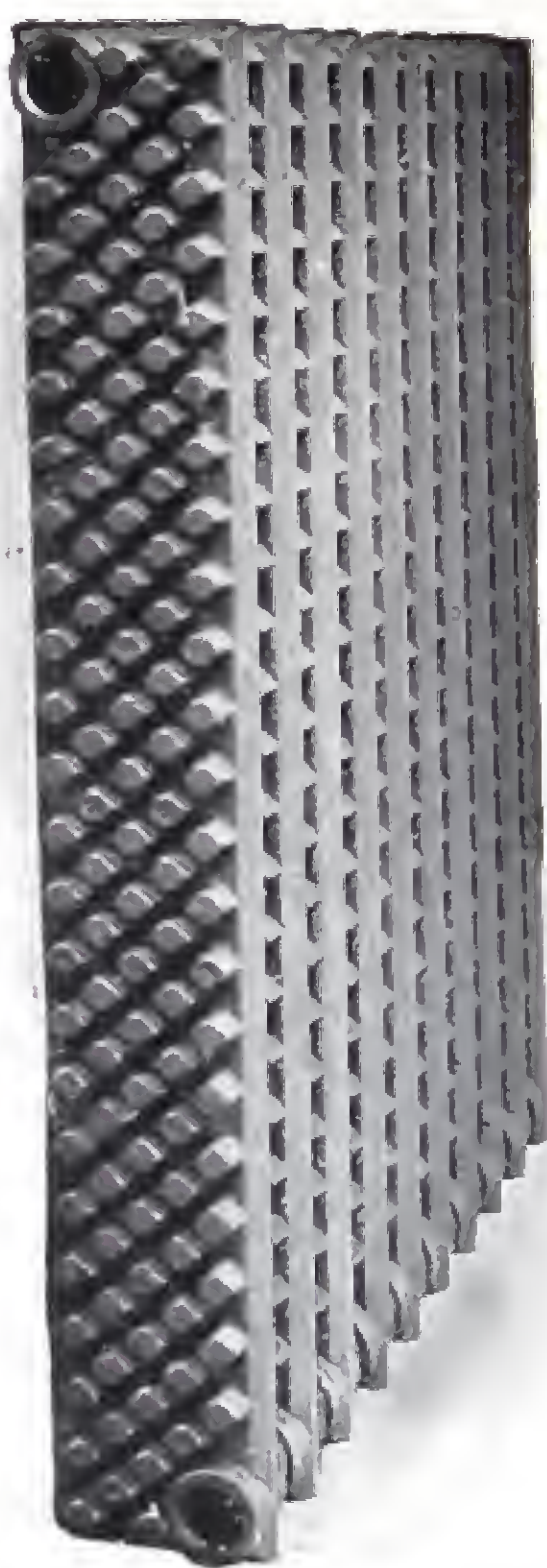
Simplicity: Sections are easily handled and transported, and may be carried through doors or windows of any building, and can then be assembled into a complete heater. The equivalent pipe-coil stacks are cumbersome, difficult to handle and transport.

Small Space: A complete Vento Heater is compact, and occupies about 15 per cent less space than the equivalent pipe-coil heater. This fact invests the Vento Heater with great value, particularly where space is an important factor.

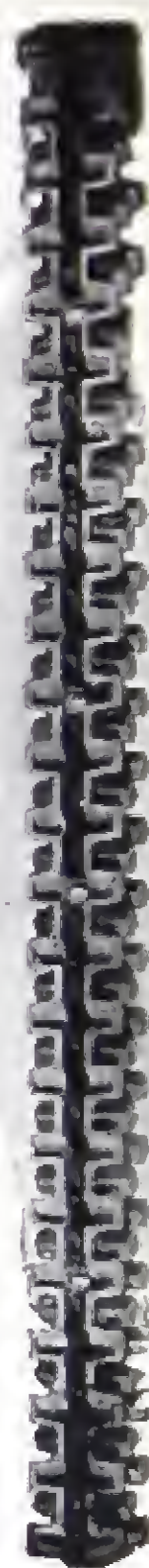
Elastic Properties: The ease and simplicity with which the Vento Heater may be either increased or reduced in its capacity, or repaired, are features which will commend it to architects and heating engineers

Vento Cast-Iron Heaters—Continued

For Fan and Blower Work



End View of Stack



Cut Open View

Circulation

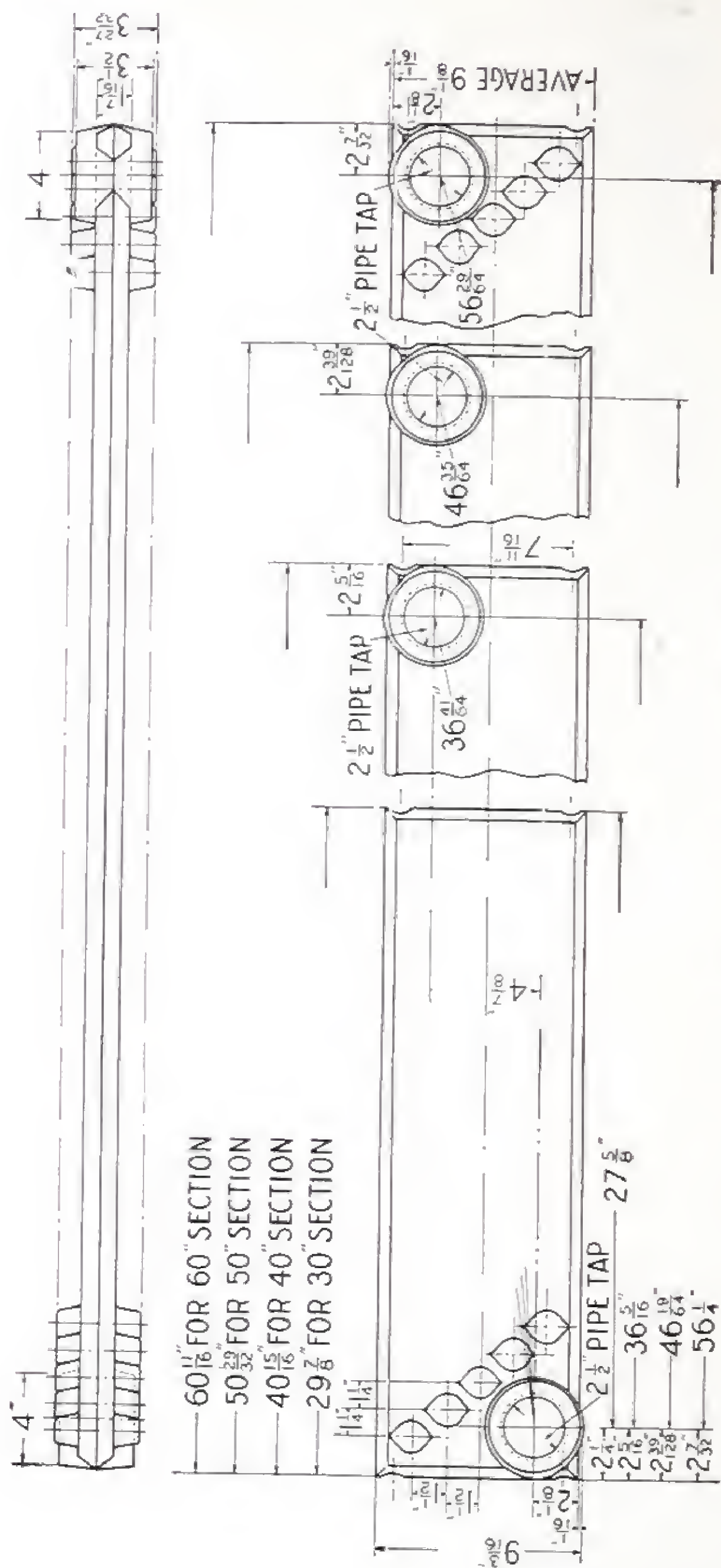
A rapid and uniform circulation of the steam is important and is well provided in the Vento Heater by having the steam enter at the top of each section.

The force of the steam carries it through the connecting ports, and drives the air down each of the sections to the air vents at the bottom, thereby securing an even and quick circulation without noise or water-hammer, besides producing equal expansion with no risk of fracture.

In pipe-coil heaters the base is usually divided into two compartments. The steam enters on one side of the partition and must then rise through a series of one-inch pipes, sometimes 8 or 10 feet, before it can deposit the water of condensation in the return or opposite row of pipes, where it belongs.

The result is that, when using low-pressure steam in cold weather, the condensation is so rapid in the first rows of pipes that a partial vacuum is created, having a tendency to hold the condensation in suspension. The water coming in contact with the intruding steam, causes violent water-hammer and unequal expansion of the base, with consequent liability to breakage. The construction of the Vento Heater prevents such difficulty.

Vento Cast-Iron Heaters—Continued



30-, 40-, 50- and 60-inch Sections

Vento Cast-Iron Heaters—Continued

Assembling Sections

NIPPLES: All sections are connected by extra heavy cast-iron hexagon right- and left-hand threaded nipples. These nipples are specially made for Vento-Heaters. Our standard spacing of sections in a stack is on 5-inch centers. Distance between centers can be increased or decreased by use of proper nipples as herewith described:

30-, 40-, 50- and 60-inch Sections

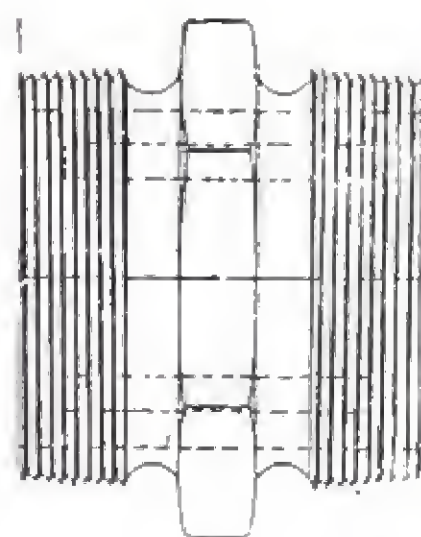
Centers	Sizes of Nipples
5 in.	2 1/2 x 3 in.
5 3/8 in.	2 1/2 x 3 3/8 in.
4 5/8 in.	2 1/2 x 2 5/8 in.
4 in.**	2 1/2 x 2 in.

*On 30" nipples are all 2" diam.

**Internal Nipple

72-inch Section

Centers	Sizes of Nipples
5 in.	3 x 3 in.
5 3/8 in.	3 x 3 3/8 in.
4 5/8 in.	3 x 2 5/8 in.



Hexagon Nipple

Supply and Return Tappings

30-INCH SECTION: Tappings are 2-inch, right-hand on supply end (top of section), 2-inch left-hand on opposite return (bottom of section).

40-, 50- AND 60-INCH SECTION: Tappings are 2 1/2-inch right-hand on supply end (top of section), 2 1/2-inch left-hand on opposite return end (bottom of section). Inside tappings on all bushings have right-hand threads, unless otherwise ordered. If desired, we can furnish feed sections tapped 3 inches.

All return tappings (except 72-inch Section and 30-inch) are 2 1/2 inches, unless specially ordered bushed to size required. Orders should state whether steam and return are to be on same end of stack, or on opposite ends.

72-INCH SECTION: Tapped top and bottom 3 inches, right-hand feed, left-hand return opposite end. We furnish 3 x 2 1/2-inch bushings for return of 72-inch Section.

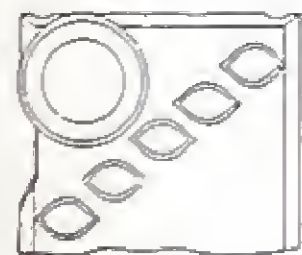
Air Vent Connections

SIZE AND LOCATION: Both end sections of each stack have a 3/8-inch tapping for air vent located in the end of a middle pin—4 1/2 inches above bottom of section. These tappings are plugged when shipped.

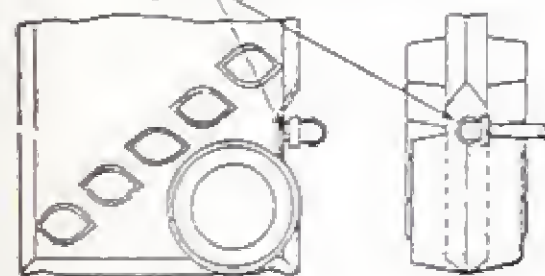
GRAVITY AND AIR LINE SYSTEMS: Heaters having from 5 to 12 sections, feed and return same end, have one air vent—located on return connection.

Heaters having from 13 to 30 sections inclusive, feed and return on opposite ends—place vent on return connection, also vent out of middle vent section.

We do not recommend feed and return on same end for more than 15 sections in a stack. If it is found necessary to make same end connections for more than 12 sections, additional air vent connection must be made with center air vent section.



3/8 INCH TAP



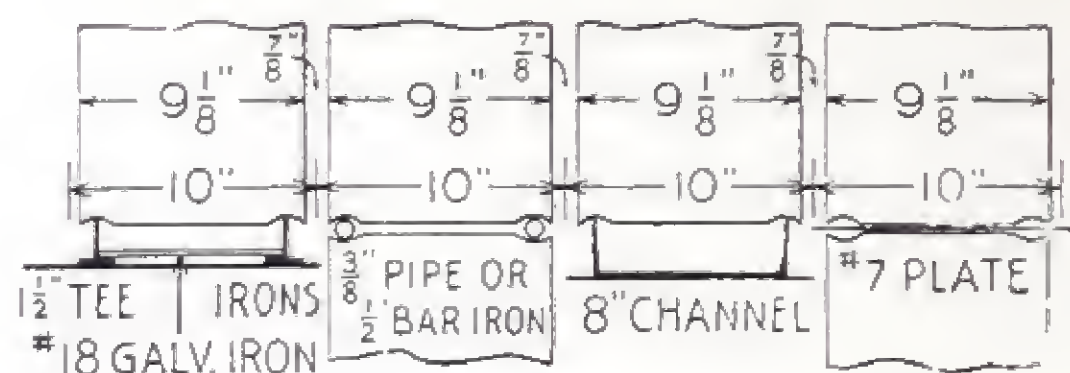
Top and bottom views of a center air-vent section

VACUUM SYSTEM: Always use feed and return on opposite ends of stack. On stacks of 17 to 30 sections inclusive, take additional vent out of center vent section.

CENTER AIR-VENT SECTION: We make a special center air-vent section, tapped 3/8-inch, which we recommend using in the 72-inch size wherever there is an installation of thirteen or more sections. We also furnish this air-vent section with the 40-, 50- and 60-inch sizes where required. The air-vent section is shipped with this 3/8" tapping plugged.

Vento Cast-Iron Heaters—Continued

Assembling and Supporting



Light T-Iron, channel iron, $\frac{3}{8}$ -inch pipe, $\frac{1}{2}$ -inch bar iron or plate iron may be used to support the heaters singly or in tiers, as described herewith. These methods permit a slight movement of the several sections of the heater (due to expansion and contraction), and allow any row of Vento sections to be readily taken out for examination or changes in a small fraction of the time necessary to remove a section of a pipe-coil heater.

IMPORTANT NOTE.—Special care should be taken to stagger each row of sections as shown below, so that the air will come into initiative contact with every row.

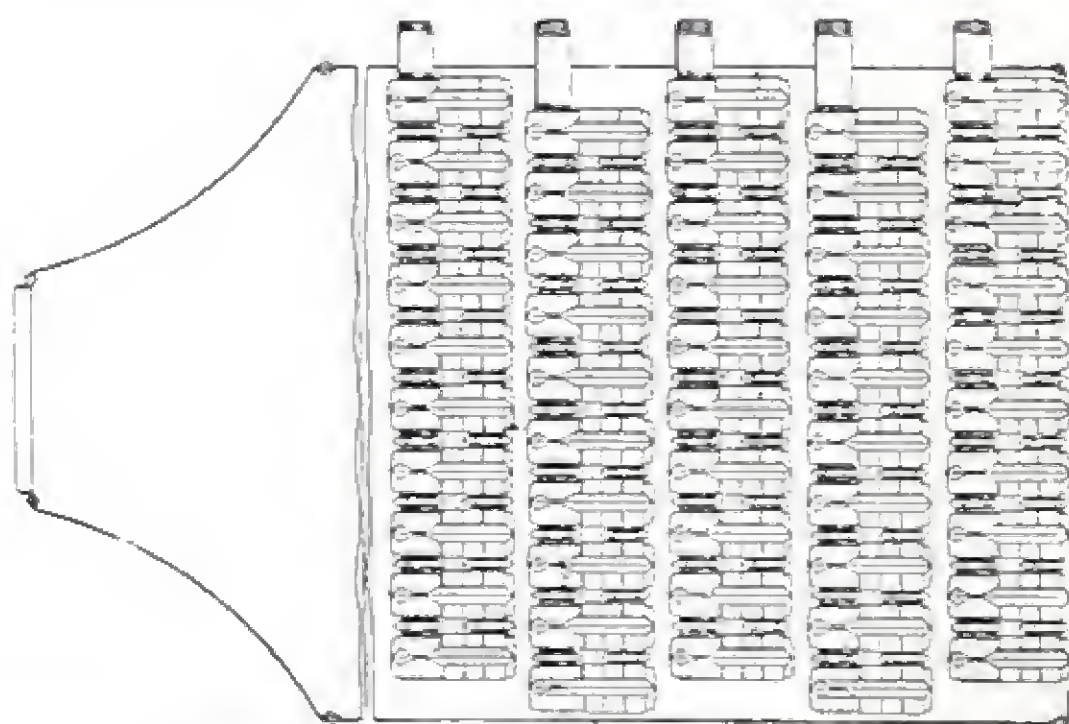
To Figure Space Occupied and Heating Surface

Take for example, a Vento Heater consisting of six stacks, each containing ten 60-inch sections:

The sections are $9\frac{1}{8}$ inches wide. Six stacks of these sections will set on 10-inch centers in the Heaters, so that the Heater will be 60 inches deep in the direction of air flow. Total heating surface in this Heater will be $6 \times 10 \times 16$ square feet—960 square feet.

The height of the 60-inch Heater will be $60\frac{11}{16}$ inches, and the width will depend on the centers of sections in stack.

If the standard 5-inch spacing is used, the width of a 10-section stack will be $50 + 2\frac{1}{2}$ inches for staggering of stacks—making the total width $52\frac{1}{2}$ inches. Always allow $2\frac{1}{2}$ inches for staggering.



Top View of Heater, Showing Necessary Staggered Arrangement of Groups

Send for "Engineers' Data on Vento Heaters," containing Temperature and Condensation Charts and Special Information on Estimating Vento Heaters.

Vento Cast-Iron Heaters—Continued

For Steam or Water

Ratings and Free Areas

30" Section (Steam or Water)—8 sq. ft. Height, 29 $\frac{7}{8}$ ".
Width, 9 $\frac{1}{8}$ "

No. of Sections in Stack	Sq.ft. of Heating Surface	5 $\frac{3}{8}$ " Centres of Sections		5" Centres of Sections		4 $\frac{5}{8}$ " Centres of Sections		4" Centres of Sections	
		52% of Face		Standard, 44% of Face		37% of Face		24% of Face	
		Net Air Space in Sq. Ft.	+Width of Stack in Ins.	Net Air Space in Sq. Ft.	+Width of Stack in Ins.	Net Air Space in Sq. Ft.	+Width of Stack in Ins.	Net Air Space in Sq. Ft.	+Width of Stack in Ins.
10	80	5.42	54	4.60	50	3.90	46	2.25	40
11	88	5.96	59	5.06	55	4.29	51	2.81	44
12	96	6.50	65	5.52	60	4.68	55	3.06	48
13	104	7.04	70	5.98	65	5.07	60	3.32	52
14	112	7.57	75	6.44	70	5.46	65	3.57	56
15	120	8.11	81	6.90	75	5.85	69	3.83	60
16	128	8.65	86	7.36	80	6.24	74	4.08	64
17	136	9.19	91	7.82	85	6.63	79	4.34	68
18	144	9.73	97	8.28	90	7.02	83	4.59	72
19	152	10.27	102	8.75	95	7.41	88	4.85	76
20	160	10.81	108	9.21	100	7.80	92	5.11	80
21	168	11.35	113	9.67	105	8.19	97	5.36	84
22	176	11.89	118	10.13	110	8.58	102	5.62	88
23	184	12.42	124	10.59	115	8.97	106	5.87	92
24	192	12.96	129	11.05	120	9.36	111	6.13	96

40" Section (Steam or Water)—10.75 sq. ft. Height, 40 $\frac{1}{8}$ ".
Width, 9 $\frac{1}{8}$ "

		5 $\frac{3}{8}$ " Centres		5" Centres		4 $\frac{5}{8}$ " Centres		4" Centres	
10	107.50	7.29	54	6.20	50	5.25	46	3.50	40
11	118.25	8.02	59	6.82	55	5.77	51	3.85	44
12	129.00	8.74	65	7.44	60	6.30	55	4.20	48
13	139.75	9.47	70	8.06	65	6.82	60	4.55	52
14	150.50	10.19	75	8.68	70	7.35	65	4.90	56
15	161.25	10.91	81	9.30	75	7.87	69	5.25	60
16	172.00	11.64	86	9.92	80	8.40	74	5.60	64
17	182.75	12.36	91	10.54	85	8.92	79	5.95	68
18	193.50	13.09	97	11.16	90	9.45	83	6.30	72
19	204.25	13.82	102	11.78	95	9.97	88	6.65	76
20	215.00	14.45	108	12.40	100	10.50	92	7.00	80
21	225.75	15.26	113	13.02	105	11.02	97	7.35	84
22	236.50	15.98	118	13.64	110	11.55	102	7.70	88
23	247.25	16.71	124	14.26	115	12.07	106	8.05	92
24	258.00	17.43	129	14.88	120	12.60	111	8.40	96

50" Section (Steam or Water)—13.5 sq. ft. Height, 50 $\frac{3}{8}$ ".
Width, 9 $\frac{1}{8}$ "

		5 $\frac{3}{8}$ " Centres		5" Centres		4 $\frac{5}{8}$ " Centres		4" Centres	
10	135.0	9.05	54	7.68	50	6.50	46		
11	148.5	9.95	59	8.45	55	7.15	51		
12	162.0	10.85	65	9.22	60	7.80	55		
13	175.5	11.75	70	9.99	65	8.45	60		
14	189.0	12.65	75	10.76	70	9.10	65		
15	202.5	13.55	81	11.53	75	9.75	69		
16	216.0	14.45	86	12.30	80	10.40	74		
17	229.5	15.35	91	13.07	85	11.05	79		
18	243.0	16.25	97	13.84	90	11.70	83		
19	256.5	17.15	102	14.59	95	12.35	88		
20	270.0	18.05	108	15.36	100	13.00	92		
21	283.5	18.95	113	16.13	105	13.65	97		
22	297.0	19.85	118	16.90	110	14.30	102		
23	310.5	20.75	124	17.67	115	14.95	106		
24	324.0	21.65	129	18.44	120	15.60	111		

50-inch Sections can be assembled on 4-inch centres (See "Engineers' Data on Vento Heaters.")

Approx. weights—Actual, 8.2 lbs. per sq. ft. Shipping, 9 lbs. per sq. ft.

†NOTE.—Add to the width of stack 2 $\frac{1}{2}$ inches for staggering of stacks—except 4-inch centres not staggered.

Vento Cast-Iron Heaters—Continued

For Steam or Water

Ratings and Free Areas

60" Section (Steam or Water)—16 sq. ft. Height, 60 $\frac{1}{8}$ ".
Width, 9 $\frac{1}{8}$ ".

No. of Sec- tions in Stack	Sq.ft. of Heat- ing Sur- face	5 $\frac{3}{8}$ " Cent. of Sec's		5" Cent. of Sec's		4 $\frac{5}{8}$ " Cent. of Sec's	
		52% of Face		Stand. 44% of Face		37% of Face	
		Net Air Space in Sq. Ft.	†Width of Stack in Inches	Net Air Space in Sq. Ft.	†Width of Stack in Inches	Net Air Space in Sq. Ft.	†Width of Stack in Inches
10	160	10.85	54	9.21	50	7.81	46
11	176	11.93	59	10.13	55	8.59	51
12	192	13.00	65	11.05	60	9.37	55
13	208	14.08	70	11.97	65	10.15	60
14	224	15.15	75	12.89	70	10.93	65
15	240	16.23	81	13.81	75	11.71	69
16	256	17.31	86	14.73	80	12.49	74
17	272	18.39	91	15.65	85	13.27	79
18	288	19.46	97	16.57	90	14.05	83
19	304	20.54	102	17.50	95	14.83	88
20	320	21.62	108	18.42	100	15.61	92
21	336	22.70	113	19.34	105	16.39	97
22	352	23.78	118	20.26	110	17.17	102
23	368	24.85	124	21.18	115	17.95	106
24	384	25.93	129	22.10	120	18.73	111

72" Section (Steam or Water)—19 sq. ft. Height, 72 $\frac{3}{2}$ ".
Width, 9 $\frac{1}{8}$ ".

		5 $\frac{3}{8}$ " Centres		5" Centres		4 $\frac{5}{8}$ " Centres	
10	190	13.03	54	11.04	50	9.37	46
11	209	14.31	59	12.17	55	10.30	51
12	228	15.60	65	13.27	60	11.25	55
13	247	16.90	70	14.35	65	12.18	60
14	266	18.19	75	15.46	70	13.11	65
15	285	19.49	81	16.58	75	14.06	69
16	304	20.78	86	17.70	80	14.99	74
17	323	22.07	91	18.78	85	15.92	79
18	342	23.34	97	19.88	90	16.86	83
19	361	24.64	102	21.00	95	17.80	88
20	380	25.95	108	22.10	100	18.73	92
21	399	27.25	113	23.20	105	19.67	97
22	418	28.52	118	24.31	110	20.60	102
23	437	29.80	124	25.40	115	21.54	106
24	456	31.10	129	26.50	120	22.47	111

Approx. weights—Actual, 8.2 lbs. per sq. ft. Shipping, 9 lbs. per sq. ft.

†NOTE.—Add to the width of stack 2 $\frac{1}{2}$ inches for staggering of stacks.

NOTE.—60-inch Sections can be assembled on 4-inch centers. (See "Engineer's Data on Vento Heaters.")

Shipments

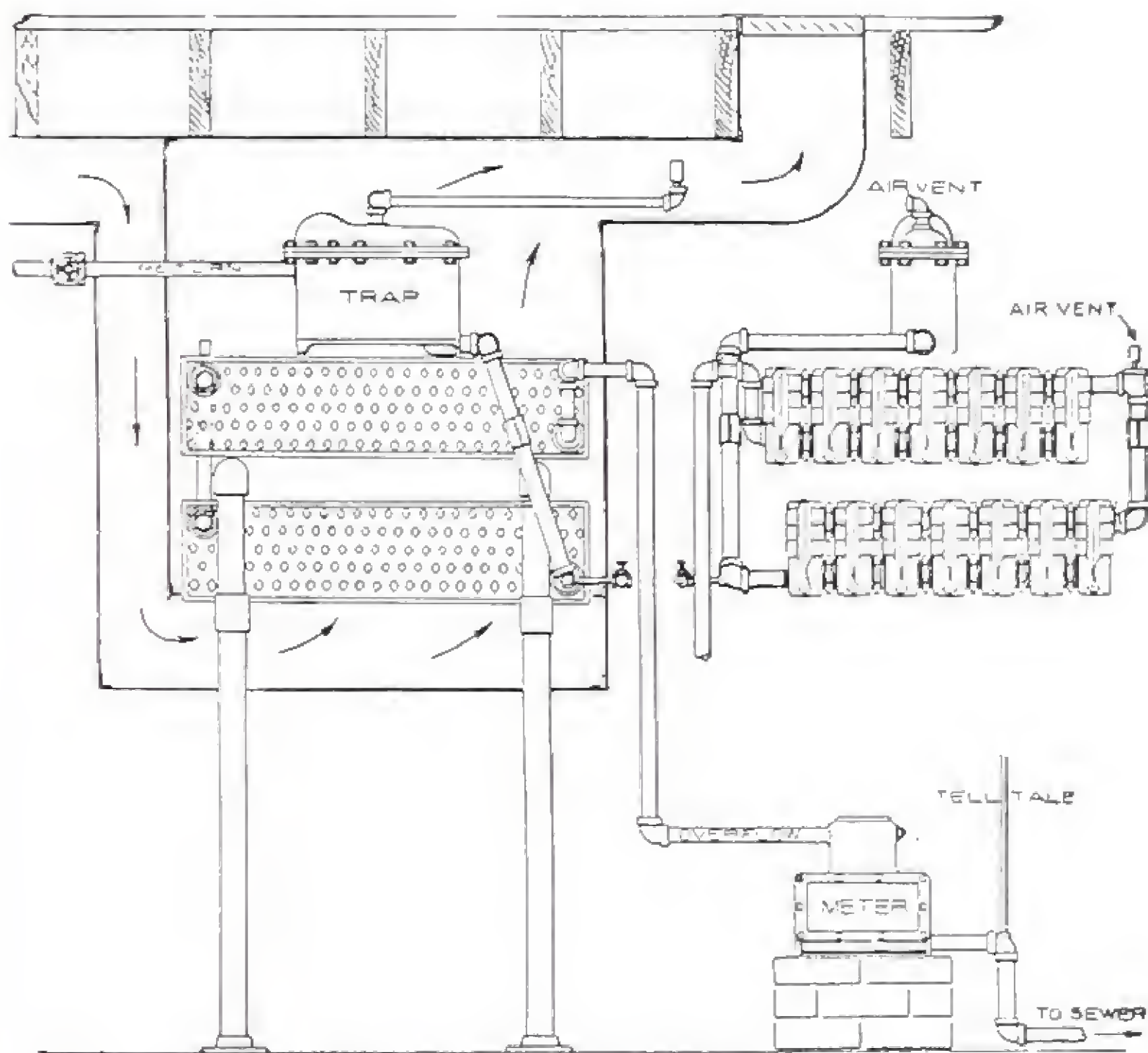
Unless otherwise ordered, we ship the Vento Heater in blocks of five, six or seven sections, firmly crated and bolted together, so that it is almost impossible for the Vento Stack to arrive at point of destination in bad order. As each block is easily handled, our shipments have a great advantage over pipe-coil heaters, which may be strained or damaged by reason of large units and heavy weights.

Vento Cast-Iron Heaters—Continued

For "Cooling" or "Economizing" Coils

In order to utilize all the heat possible and therefore secure the greatest economy from the use of steam supplied by the Central Station Steam Heating Companies, the most competent engineers have adopted what is called an "economizing coil," "cooling coil," or "condensing coil," which is usually located in the basement at the end of the return main. All of the water of condensation must pass through this "economizing coil" and give up its heat before passing off to drain or sewer.

The admirable construction of the Vento Heater makes it especially suited to these requirements, as it has a very effective cooling surface and a continuous water way from inlet to outlet, so that all condensation of the steam must travel the entire circuit before escaping.



Showing side and end views of Vento Sections used for economizing; also necessary equipment and connections

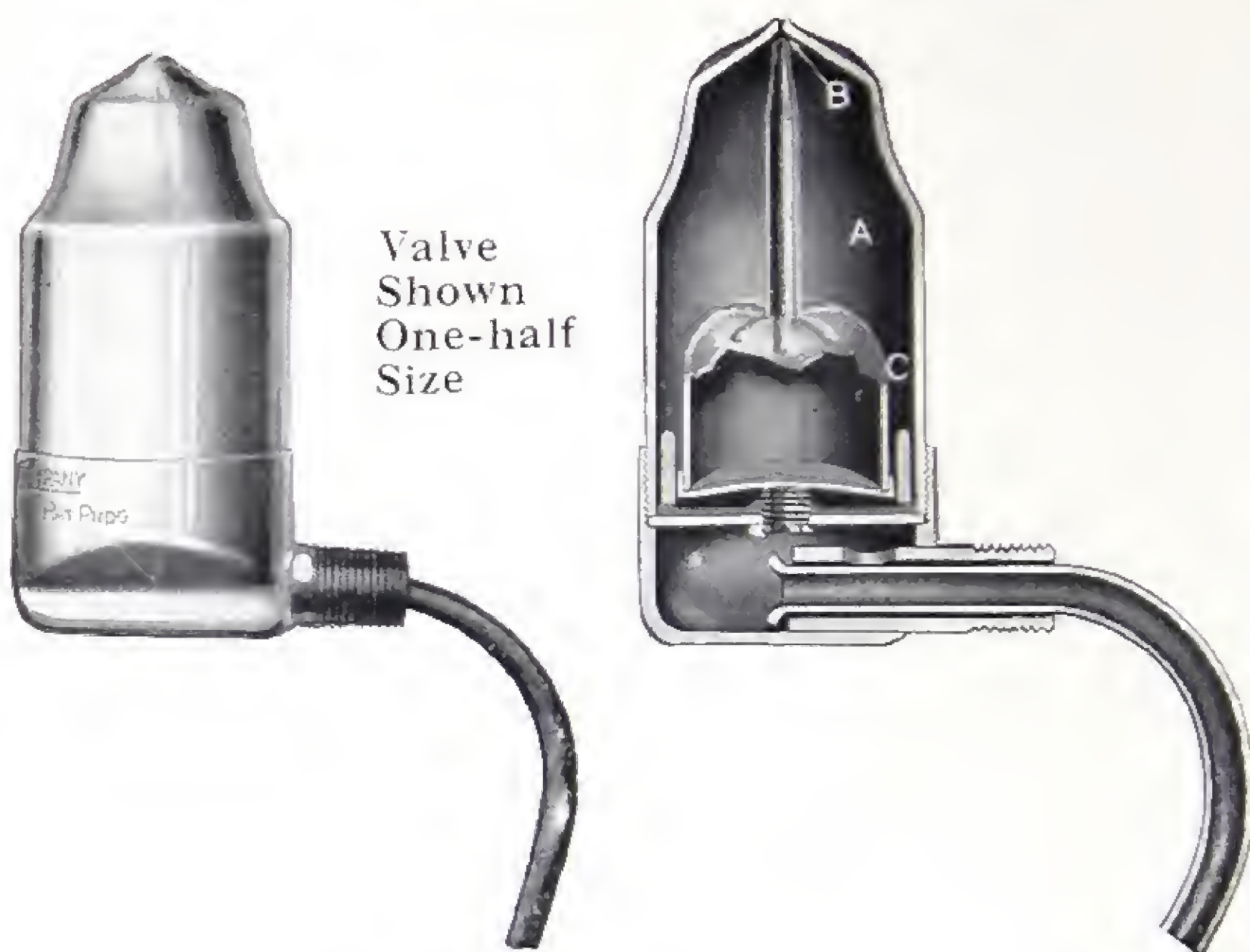
Vento Nipple Wrench

For Ventó Sections this wrench will be found most practical. Made of drop-forged steel, for right- and left-hand threaded nipples having a hexagon nut at centre. In ordering, state whether for 2", 2½", or 3" nipple. Carried in stock.

Size	List Price
2"	\$ 9.00
2½"	16.00
3"	17.50

The Ideal Airid Siphon Valve

Stock No. 500



Unfailing and Automatic

The IDEAL AIRID Siphon Valve will automatically rid any steam radiator of air under any conditions which would permit venting by hand. It opens quickly to allow any pocket of air to escape, yet closes instantly should water or steam reach the valve. This means complete venting of the radiator—a saving in coal by preventing unnecessary steam pressure to force out the air—full efficiency of every radiator—the whole quota of heat to each room—insurance that your boiler and radiators will do all you expect of them.

All-Metal Construction

The IDEAL AIRID Siphon Valve does not sputter or hiss steam. It prevents damage to floors, walls and ceilings from water or steam leaks. It is simple in construction, made entirely of metal, and has no perishable parts to wear. It requires no adjustment. No attention is needed to insure proper operation at all times. Tenants cannot "tamper" with it, an important feature to owners of apartments, stores, office buildings, and hotels.

List Price, \$3.00

Ideal Quick Vent

Stock No. 815



No. 815 Quick Vent

For venting mains, long runs of pipe, indirect stacks, drop risers, etc., where a large amount of air must be expelled quickly. Will benefit all low pressure steam jobs by venting entire piping system and thereby heating radiators quicker under less pressure. Operates by volatile liquid contained within expandible member which has diaphragm at top and bottom giving full movement of stem. No adjustment. All metal. Very sensitive. Will last indefinitely. Does not close against water. Venting port $\frac{3}{32}$ -inch diameter. Valve connection $\frac{3}{4}$ -inch pipe thread. Polished brass finish. Weight, packed $\frac{1}{3}$ pound each.

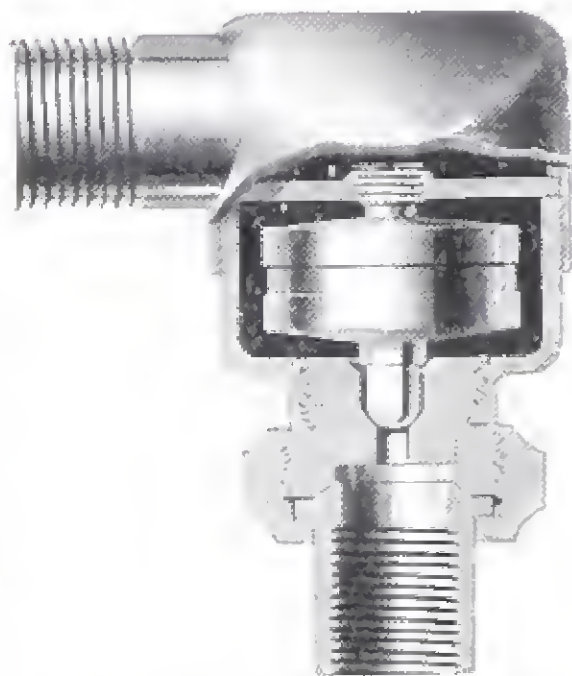
List Price, each \$4.50

Ideal Vento Vent

Stock No. 817

For Use on Vento Heaters and Blast Coils

This valve is designed particularly for relieving air from Vento heaters (low pressure only). It has a large venting port $\frac{3}{16}$ -inch diameter. Operates by volatile liquid contained within expandible member with diaphragm at top and bottom. No adjustment. All metal. Does not close against water. Connection to heater $\frac{3}{8}$ -inch pipe size. Outlet fitted with $\frac{1}{4}$ -inch female union for air line. Can be set in any position. Nickel-plated. Weight of 6, packed, 2 lbs.



No. 817 Vento Vent

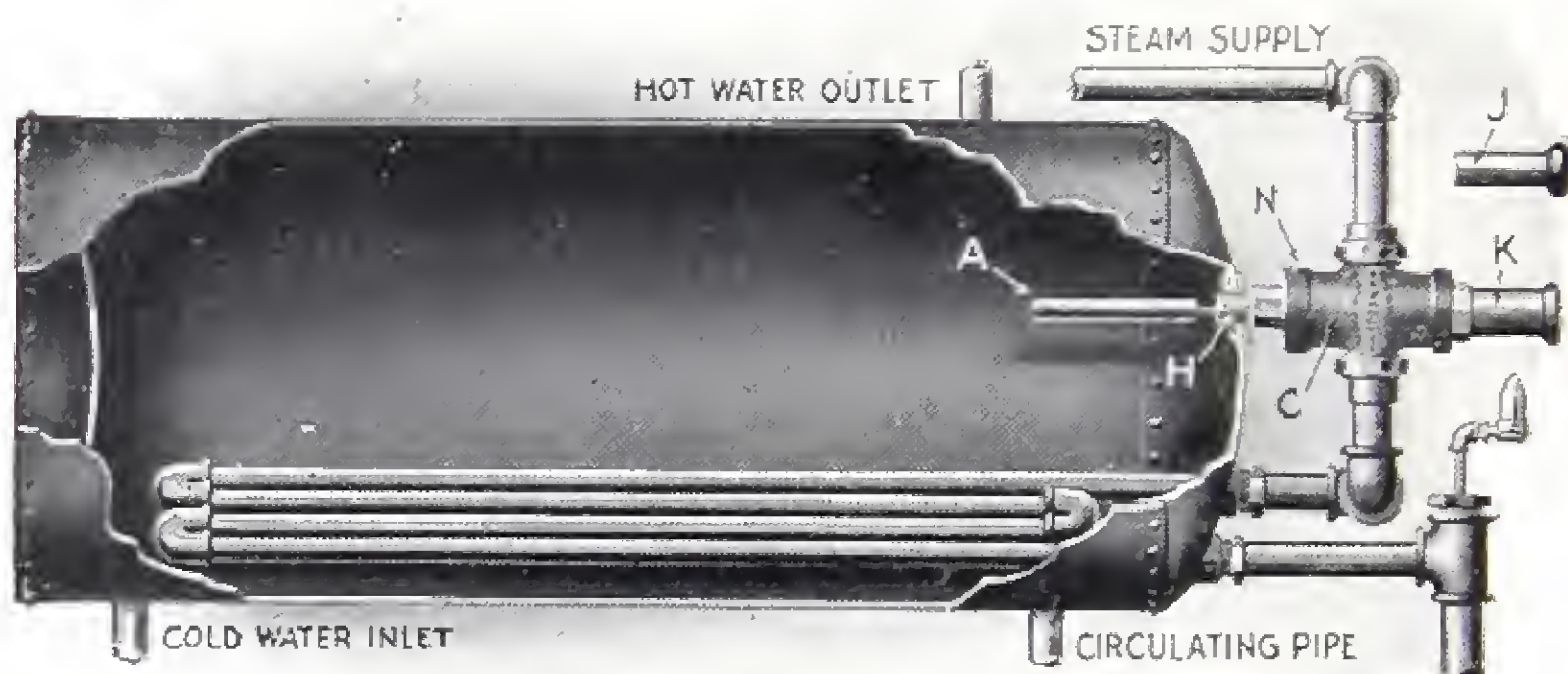
List Price, each \$4.50

Arco Tank Regulator

For automatic regulation of the temperature of any liquid heated by steam.

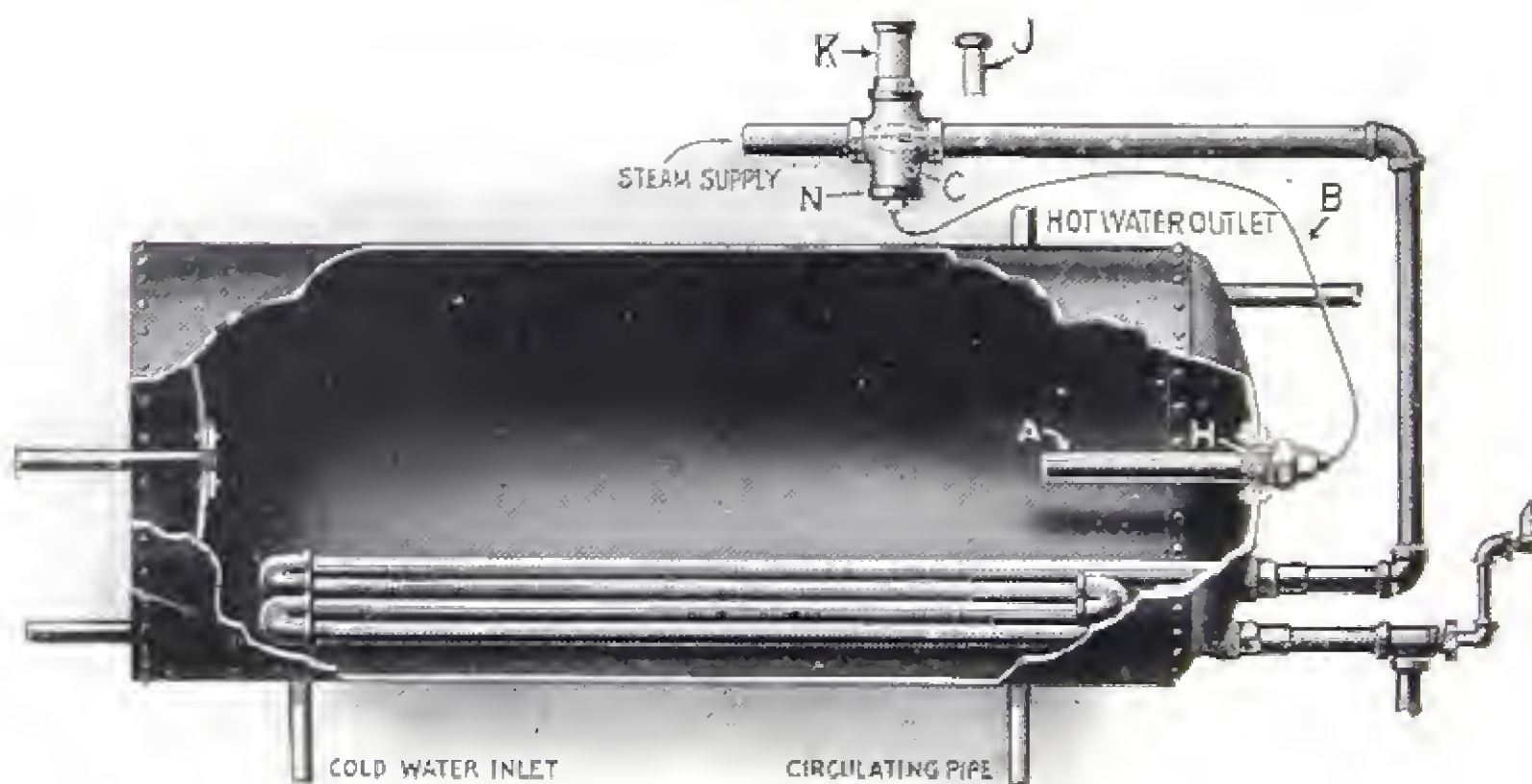
Steam Pressure not to exceed 15 lbs.

The extreme sensitiveness, positive action, and simplicity of this regulator have placed it in a class by itself, and made it applicable in hundreds of ways. No compressed air, electricity, water or auxiliary power necessary. It is operated by a bellows made entirely of brass—one piece—not built up discs. Will last indefinitely. It can be used in hotels, office buildings, schools, hospitals, public institutions, factories of all kinds, bottling works, aquariums, canning factories, chemical laboratories, laundries, on railroad watertanks, sprinkler systems, feed water heaters, pasteurizing machines, vulcanizing machines, suction gas producers, etc.



Direct Connected Type

Stock No. 825



Flexible Tube Type

Stock No. 826

Adjustment of temperature is obtained by a key or wrench, fitting into a shield which keeps the adjustment completely under control.

Temperature range regularly furnished 140°—180°—Fahr. Special temperature range supplied on special order. Flexible tube 8 feet long.

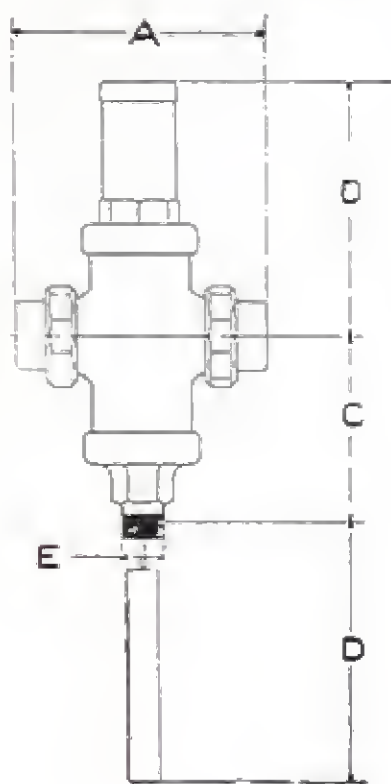
See page 105 for measurements and List Prices.

Arco Tank Regulator

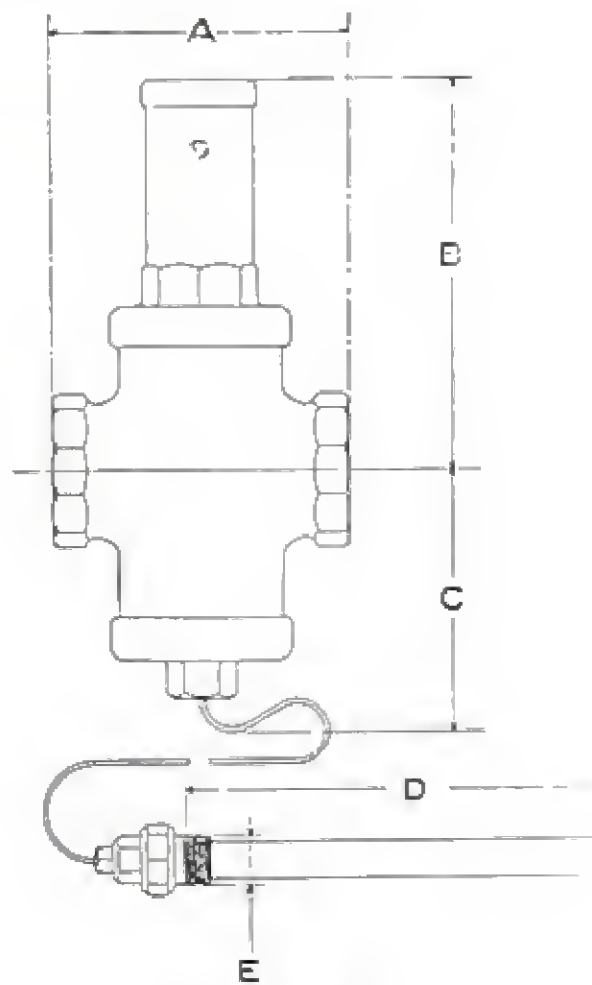
Grouping of Sizes

A novel method of grouping the sizes is provided. Many tests have proven that this design makes possible the use of one regulator for several sizes. For example, size A is used for $\frac{1}{2}$ ", $\frac{3}{4}$ " and 1" pipe connections. It is threaded 1" and sets of bushings are furnished with each regulator for $\frac{3}{4}$ " and $\frac{1}{2}$ ", so that it may be used for any of these three sizes. Size B includes $1\frac{1}{4}$ " and $1\frac{1}{2}$ " pipe connections. Size C, 2" only. Size D, $2\frac{1}{2}$ " and 3". This feature results in a saving to the contractor in case pipe sizes are changed.

Roughing in Dimensions



No. 825



No. 826

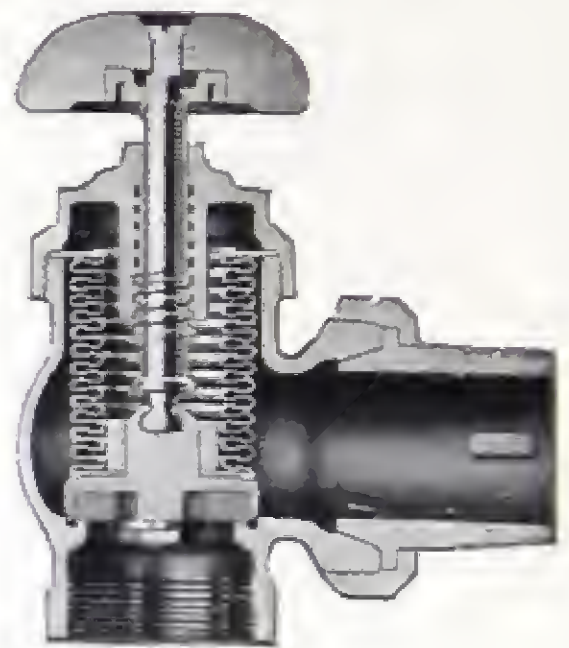
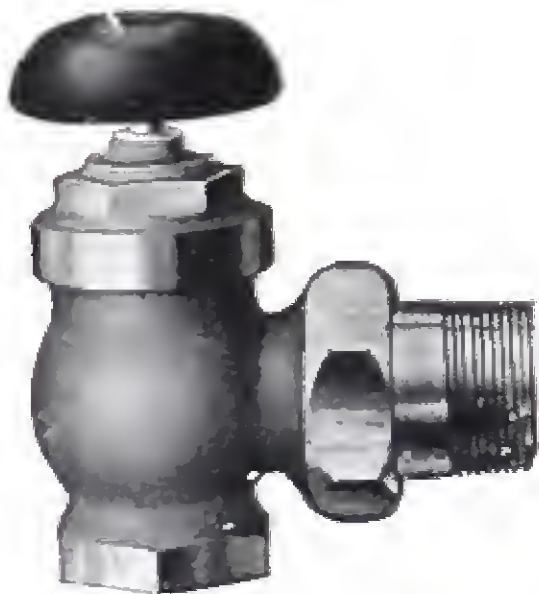
Dimensions in Inches		A	B	C	D	E
No. 825 Direct Connected						
Size A for $\frac{1}{2}$ ", $\frac{3}{4}$ ", 1" Pipe.....		$7\frac{1}{2}$	$5\frac{7}{16}$	$4\frac{7}{8}$	$6\frac{9}{16}$	1
Size B for $1\frac{1}{4}$ " and $1\frac{1}{2}$ " Pipe...		$8\frac{3}{16}$	$8\frac{3}{16}$	$6\frac{1}{16}$	$8\frac{9}{16}$	1
No. 826 Flexible Tube						
Size A for $\frac{1}{2}$ ", $\frac{3}{4}$ ", 1" Pipe.....		$7\frac{1}{2}$	$5\frac{7}{16}$	5	$5\frac{7}{8}$	1
Size B for $1\frac{1}{4}$ " and $1\frac{1}{2}$ " Pipe..		$8\frac{3}{16}$	$8\frac{3}{16}$	$6\frac{3}{16}$	$7\frac{7}{8}$	1
Size C for 2" Pipe.....		$8\frac{3}{4}$	$8\frac{1}{4}$	$6\frac{3}{16}$	$9\frac{1}{8}$	$1\frac{1}{4}$
Size D for $2\frac{1}{2}$ " and 3" Pipe.....		$9\frac{3}{4}$	$12\frac{11}{16}$	$8\frac{5}{16}$	$15\frac{1}{8}$	$1\frac{1}{4}$

List Prices, Complete with Bushings

Stock No.	Size	Pipe Conn.	Type	Shipping Weight Pounds	List Price
825	A	$\frac{1}{2}$ ", $\frac{3}{4}$ ", 1"	Direct Connected with Unions..	20	\$75.00
825	B	$1\frac{1}{4}$ ", $1\frac{1}{2}$ "	Direct Connected with Unions..	25	90.00
826	A	$\frac{1}{2}$ ", $\frac{3}{4}$ ", 1"	Flexible Tube with Unions.....	20	90.00
826	B	$1\frac{1}{4}$ ", $1\frac{1}{2}$ "	Flexible Tube with Unions.....	25	100.00
826	C	2"	Flexible Tube—Screwed Ends..	50	170.00
826	D	$2\frac{1}{2}$ ", 3"	Flexible Tube—Screwed Ends..	60	200.00

Ideal Packless Radiator Valves

Stock No. 850



For Low Pressure Steam or Water Heating

Cannot Leak

Ideal Packless Radiator Valves cannot leak because they are made without packing. In ordinary valves a perishable packing is used around the stem, which wears, as the valve is operated, and allows steam and water to leak out. In the Ideal Packless Radiator Valve a flexible metal bellows is permanently fastened around the stem, expanding and contracting as the valve is opened and closed. This air-, steam- and water-tight shield interposes an everlasting barrier to the passage of steam or water.

Each valve is highly nickeled and polished. Handle of black hard rubber finish.

List Prices

With union, composition disc. Rough body—plated all over. Right hand thread both openings.

Size	$\frac{1}{2}$ "	$\frac{3}{4}$ "	1"	$1\frac{1}{4}$ "	$1\frac{1}{2}$ "	2"
No. 850 angle	\$5.50	\$5.50	\$6.75	\$7.75	\$9.50	\$13.75

Arco Steam Regulator

For Damper Control on Steam Heating Boilers

Stock No. 905



An improved type of all-metal pressure regulators for controlling dampers on steam heating boilers. Extreme sensitiveness has been obtained by a new design of rocker movement and by the use of two weights. The operating element is a metallic bellows of our own design and manufacture. It is made from one piece of brass—not built up from discs. The head is an integral part of the bellows, which eliminates the possibilities of leakage at soldered joints. A novel feature of this new design is the steel body and steel rocker. This avoids the expense and annoyance of breakage which frequently occurs where these parts are made of cast iron.

The design is such that the steam pressure is applied to the outside of the bellows. This insures that the bellows expand and contract evenly in all folds. There is no tendency for the bellows to tilt and unduly stretch the metal on one side. This feature insures long life and great sensitiveness.

For steam pressure up to 15 lbs.—finely finished in black baked-on-enamel. Connection to boiler, 1 inch I.P.S. male thread. Trimmings furnished; one 36-inch lever, two 4-lb. weights, 12 ft. of chain, two ceiling pulleys, four S-Hooks. Shipping weight, 16 lbs.

Stock No. 905. List price, \$20.00

Arco Water Regulator

For Damper Control on Hot Water Boilers

Stock No. 800



A damper Regulator designed by us for Hot Water Boilers which will control the drafts so as to maintain a constant water temperature at any degree between 100° and 220° Fahr. Damper control on Hot Water Boilers is as necessary as on Steam Boilers. It saves the inconvenience of attending the drafts, gives the comfort of a steady water temperature and saves heavily in fuel by preventing over-heating.

The Arco Water Regulator is made entirely of metal. Within the bulb is an expansible metallic bellows, surrounding which is volatile liquid. As the water temperature in the system increases, the liquid vaporizes and the gas pressure generated thereby compresses the bellows and forces upward the thrust rod or stem which tilts the lever and closes the drafts. As the water cools the gas pressure is relieved and the counterweight opens the drafts. There are no perishable parts to wear out. The action is sensitive and accurate. Adjustment for temperature is obtained by changing the position of weights on the lever.

The gas pressure is outside the bellows and the stem is attached to the bellows head at the bottom, similar to the construction of the Steam Regulator. This gives great accuracy and long life. The head is formed as an integral part of the bellows, thereby eliminating possibilities of leak at a soldered joint.

Data, Dimensions and Price

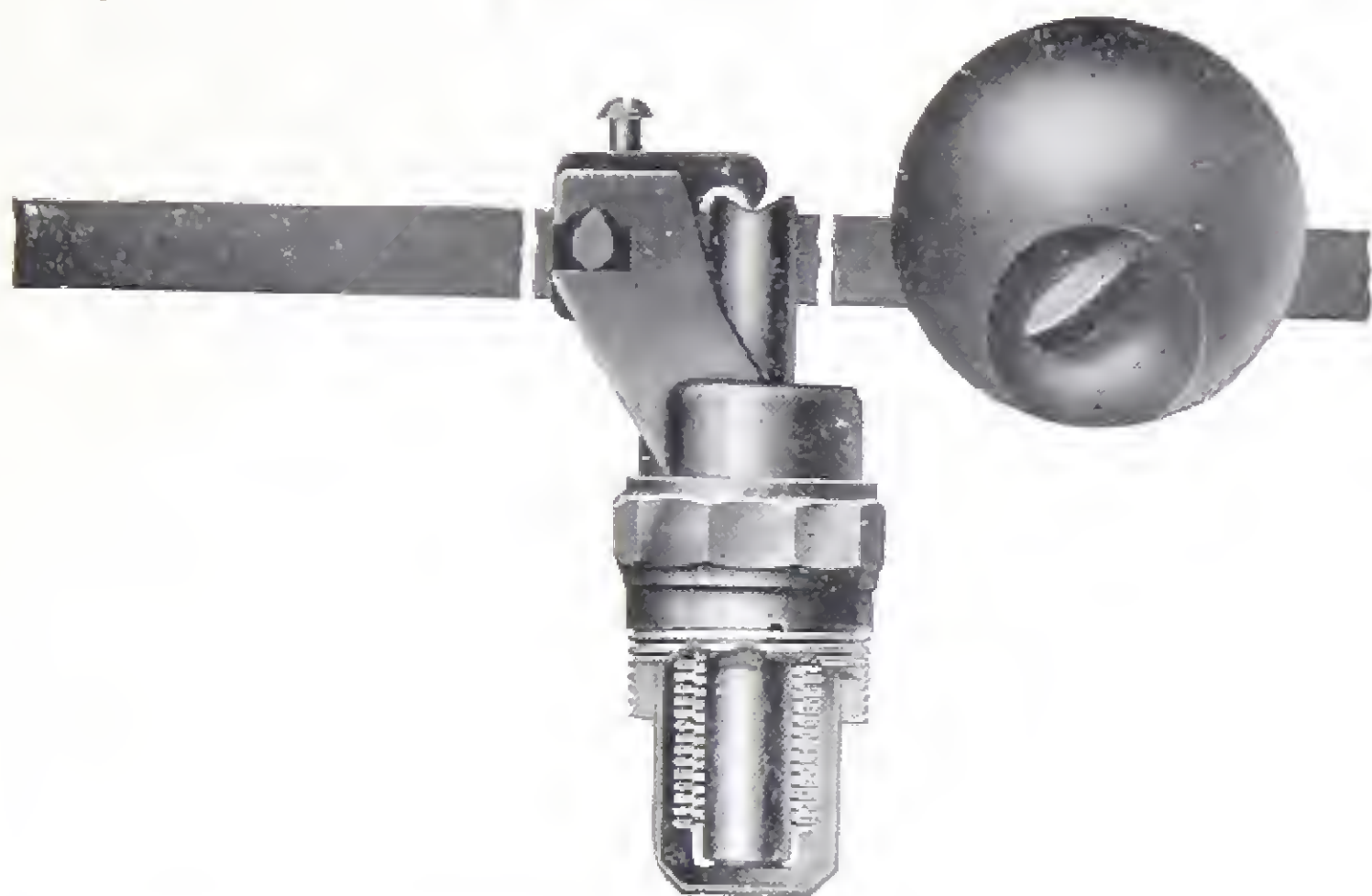
Length of Bulb $2\frac{7}{8}$ inches. Connection, 2" standard pipe thread. Trimmings consist of one 37-inch lever, two four-pound weights, 12 feet of chain, two ceiling pulleys, four "S" Hooks. Shipping weight 15 lbs.

Stock No. 800. List Price \$22.00

Arco Junior Water Regulator

For Damper Control on Tank Heaters

Stock No. 801



This Regulator is designed by us especially for Tank Heaters. As the dampers are small and light, less power is required to operate them. The construction and operation are similar to that of the No. 800 Arco Water Regulator described on page 108, but smaller in size.

Damper control on a Tank Heater is of vital importance, although it is frequently overlooked. Regulation saves fuel by preventing overheating, saves attention to drafts and maintains constant water temperature. The Arco Junior Water Regulator prevents boiling, sputtering, steaming water at the faucets and insures plenty of hot water as long as there is sufficient fire in the heater. It also prevents the annoyance and waste caused by the fire burning out and requiring rekindling, which frequently occurs in Tank Heaters due to the necessarily small fire pot. In localities where lime is present in the water, the Arco Junior Regulator prolongs the life of the heater by reducing to a minimum the lime deposit in the heater, since it prevents unnecessarily high water temperature at which most of the precipitation takes place.

Data, Dimensions and Price

Length of bulb, 2 inches. Connection, 1½-inch standard pipe thread. Temperature Range 130° to 180° Fahr. Trimmings furnished one 30-inch lever, one 3-lb. weight, 6 feet of chain, two S-Hooks. Shipping weight, 11 lbs.

Stock No. 801. List Price, \$20.00

Information Required for Ordering Radiators and Radiator Repairs

State plainly the Catalogue name. Especially mention the height of radiator required and where steam state whether it is one pipe or two pipe, plain or ornamental, round or square top, standard or long legs, and where for a vacuum system, state plainly whether the tappings are right or left and the sizes thereof.

When ordering radiator leg sections, give full particulars as to Catalogue name, whether plain or ornamental, square or round top, height whether for feed or return end, one pipe or two pipe steam, where tapping is to be located, whether same is right and left, and the size of it. Also the size of the inside connection of the section and whether it is right or left. State whether it is a water section used for steam having nipple connections top and bottom or if connection is only at bottom.

When ordering steam sections for the center of a radiator, state whether it is a center leg or ordinary center section, and all other particulars asked for above.

When ordering sections for repairs of hot water radiators, give all particulars asked for above, and further whether tapped for twin or single connection, and whether tapping is right or left, and the size of same.

When ordering curved, angle or circular radiators, kindly refer to page 120, and give all dimensions clearly.

When ordering repairs for radiators, send order direct to the office or branch from which the radiation was purchased and if possible send number and date of invoice referring to same.

Tappings of Peerless Radiators

STEAM

One-Pipe Work

Up to 25 square feet, inclusive	1	inch
Above 25 up to 60 square feet	1 $\frac{1}{4}$	inch
Above 60 up to 100 square feet	1 $\frac{1}{2}$	inch
Above 100 square feet	2	inch

Two-Pipe Work

Up to 50 square feet, inclusive	1	x	$\frac{3}{4}$	inch
Above 50 up to 95 square feet	1 $\frac{1}{4}$	x	1	inch
Above 95 square feet	1 $\frac{1}{2}$	x	1 $\frac{1}{4}$	inch

WATER

Tapped for Supply and Return or Twin Connection

Up to 50 square feet, inclusive	1	x	1	inch
Above 50 up to 100 square feet	1 $\frac{1}{4}$	x	1 $\frac{1}{4}$	inch
Above 100 square feet	1 $\frac{1}{2}$	x	1 $\frac{1}{2}$	inch

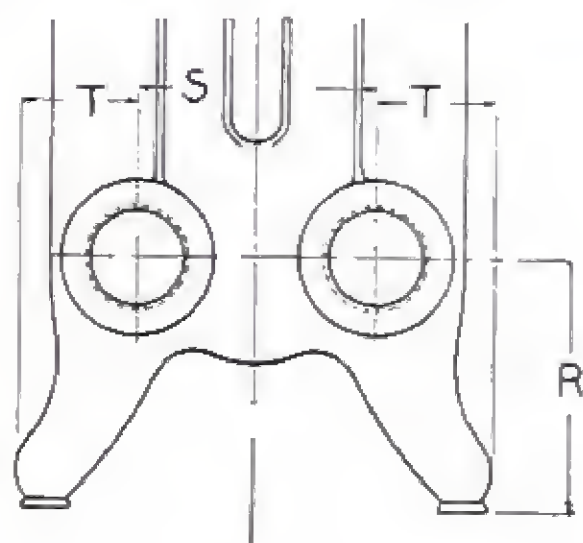
All Twin Connection Water Radiators are tapped left-hand and all single connection or opposite end tapings will be right-hand thread, unless otherwise specified on orders.

All Wall Radiators for Water are tapped top and bottom, same ends: left-hand unless otherwise specified.

All Steam Radiators, one pipe, are tapped left-hand, and if two-pipe tapping is desired, tapings are right-hand unless otherwise specified on order.

Twin Tappings

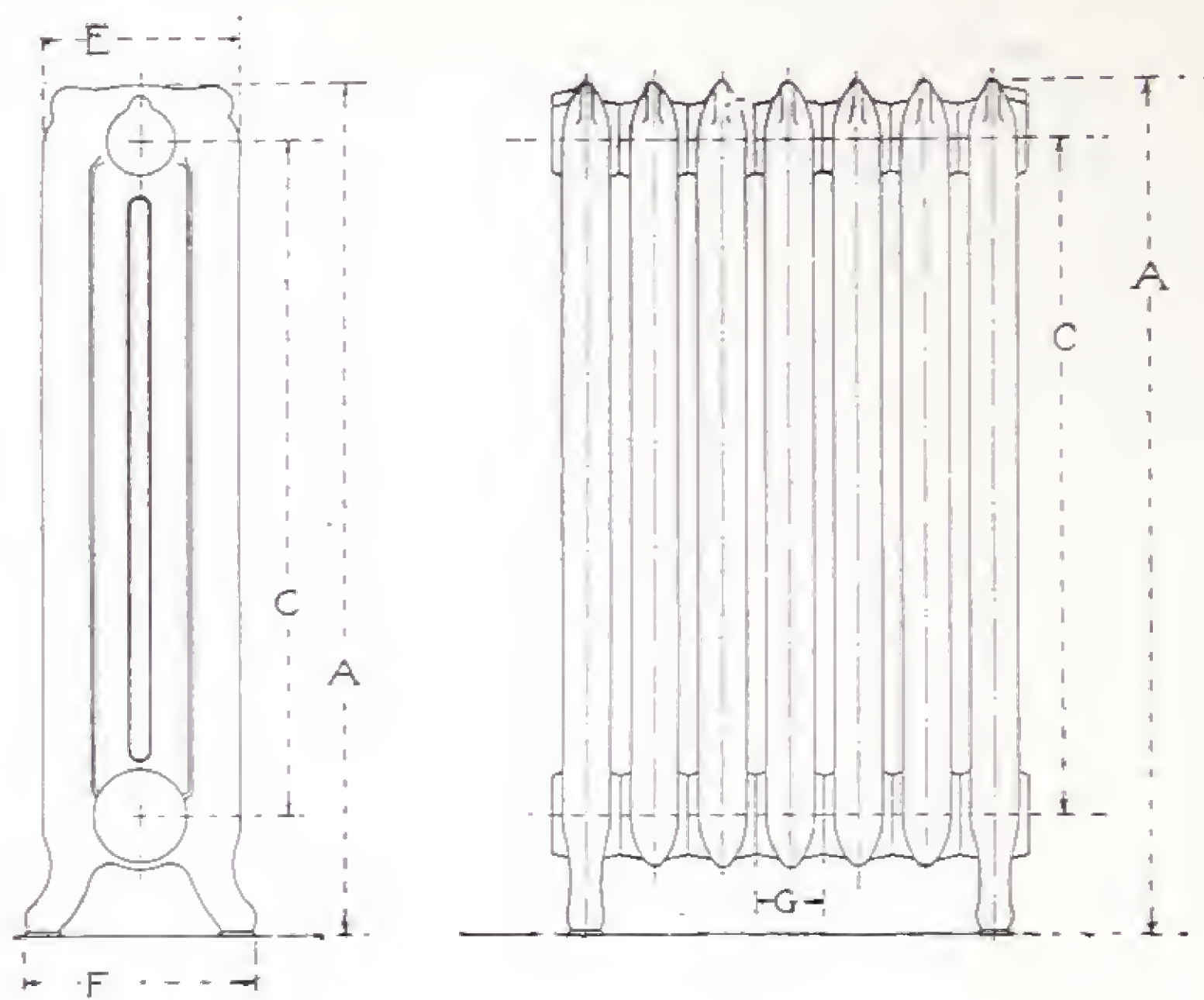
Special Measurements



Measurements are in Inches

Pattern	R	S	T
1-Column	4 $\frac{1}{2}$	3 $\frac{1}{4}$	1 $\frac{1}{4}$
2-Column.....	4 $\frac{1}{2}$	3 $\frac{1}{4}$	2 $\frac{5}{8}$
3-Column.....	4 $\frac{1}{2}$	3 $\frac{1}{4}$	3 $\frac{3}{8}$
4-Column.....	4 $\frac{1}{2}$	3 $\frac{1}{4}$	4
Window.....	3	3 $\frac{1}{4}$	4 $\frac{5}{8}$

Measurements of Peerless Direct Radiators



- | | |
|--|--|
| A. Total Height. | E. Width of sections. |
| C. Distance from center of top to center of bottom opening of Water Radiators. | F. Width at feet. |
| | G. Distance from center to center of sections. |

Distance from Floor to Center of Lower Tappings

Measurements are in Inches

Pattern	Water Supply and Return	Single Pipe- Steam	Two-Pipe Steam	
			Supply	Return
Peerless 1-Column....	4 1/2	4	4 1/2	4
Peerless 2-Column....	4 1/2	4	4 1/2	4
Peerless 3-Column....	4 1/2	4	4 1/2	4
Peerless 4-Column....	4 1/2	4 1/2	4 1/2	4 1/2
Peerless Window.....	3	3	3	3

Measurements of Peerless Direct Radiators

Measurements are in Inches. See outline, page 112.

Pattern and Catalogue Height		A	C	E	F	G	Heating Surface Sq. Ft.
One Column.....	38	$38\frac{5}{16}$	$31\frac{15}{16}$	$4\frac{3}{16}$	$5\frac{1}{4}$	$2\frac{1}{2}$	3
	32	$32\frac{15}{32}$	$25\frac{15}{16}$	$4\frac{3}{16}$	$5\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{1}{2}$
	26	$26\frac{1}{2}$	$20\frac{1}{16}$	$4\frac{3}{16}$	$5\frac{1}{4}$	$2\frac{1}{2}$	2
	23	$23\frac{1}{32}$	$16\frac{19}{32}$	$4\frac{3}{16}$	$5\frac{1}{4}$	$2\frac{1}{2}$	$1\frac{2}{3}$
	20	$20\frac{3}{16}$	$13\frac{9}{64}$	$4\frac{3}{16}$	$5\frac{1}{4}$	$2\frac{1}{2}$	$1\frac{1}{2}$
Two-Column.....	45	$45\frac{25}{64}$	$38\frac{25}{32}$	$7\frac{3}{8}$	$8\frac{3}{16}$	$2\frac{1}{2}$	5
	38	$37\frac{45}{64}$	$31\frac{3}{32}$	$7\frac{3}{8}$	$8\frac{3}{16}$	$2\frac{1}{2}$	4
	32	$31\frac{53}{64}$	$25\frac{13}{64}$	$7\frac{3}{8}$	$8\frac{3}{16}$	$2\frac{1}{2}$	$3\frac{1}{3}$
	26	$26\frac{5}{64}$	$19\frac{15}{32}$	$7\frac{3}{8}$	$8\frac{3}{16}$	$2\frac{1}{2}$	$2\frac{2}{3}$
	23	$23\frac{11}{64}$	$16\frac{9}{16}$	$7\frac{3}{8}$	$8\frac{3}{16}$	$2\frac{1}{2}$	$2\frac{1}{3}$
	20	$20\frac{1}{4}$	$13\frac{41}{64}$	$7\frac{3}{8}$	$8\frac{3}{16}$	$2\frac{1}{2}$	2
Three-Column.....	45	$45\frac{15}{16}$	$38\frac{25}{32}$	9	$9\frac{7}{8}$	$2\frac{1}{2}$	6
	38	$38\frac{11}{32}$	$31\frac{3}{32}$	9	$9\frac{7}{8}$	$2\frac{1}{2}$	5
	32	$32\frac{11}{32}$	$25\frac{13}{64}$	9	$9\frac{7}{8}$	$2\frac{1}{2}$	$4\frac{1}{2}$
	26	$26\frac{19}{32}$	$19\frac{15}{32}$	9	$9\frac{7}{8}$	$2\frac{1}{2}$	$3\frac{3}{4}$
	22	$22\frac{11}{32}$	$15\frac{7}{32}$	9	$9\frac{7}{8}$	$2\frac{1}{2}$	3
	18	$18\frac{5}{16}$	$11\frac{3}{16}$	9	$9\frac{7}{8}$	$2\frac{1}{2}$	$2\frac{1}{4}$
Four-Column.....	45	46	$38\frac{25}{32}$	$10\frac{1}{2}$	$11\frac{1}{4}$	3	10
	38	$38\frac{5}{16}$	$31\frac{3}{32}$	$10\frac{1}{2}$	$11\frac{1}{4}$	3	8
	32	$32\frac{7}{16}$	$25\frac{13}{64}$	$10\frac{1}{2}$	$11\frac{1}{4}$	3	$6\frac{1}{2}$
	26	$26\frac{11}{16}$	$19\frac{15}{32}$	$10\frac{1}{2}$	$11\frac{1}{4}$	3	5
	22	$22\frac{7}{16}$	$15\frac{7}{32}$	$10\frac{1}{2}$	$11\frac{1}{4}$	3	4
	18	$18\frac{13}{32}$	$11\frac{3}{16}$	$10\frac{1}{2}$	$11\frac{1}{4}$	3	3
Window.....	20	20	$15\frac{1}{16}$	$12\frac{1}{2}$	$12\frac{1}{2}$	3	5
	16	16	$11\frac{1}{32}$	$12\frac{1}{2}$	$12\frac{1}{2}$	3	$3\frac{3}{4}$
	13	13	$8\frac{1}{16}$	$12\frac{1}{2}$	$12\frac{1}{2}$	3	3

Tappings for Safford Radiators

Standard Tappings—Water Radiators

All Safford Water Radiators will be tapped as per schedule below. If any special tappings are desired they should be plainly stated on orders.

Water Radiators, Single or Twin Connections, all Patterns:—

50 square feet and under.....	1	x1	inch
Above 50 square feet but not exceeding 100 square feet.....	1 1/4	x1 1/4	"
Above 100 square feet.....	1 1/2	x1 1/2	"

All Twin Connection Radiators are tapped left hand. All Single Connection or opposite end tappings will be made with right hand threads. All Water Radiators are shipped twin connection tapped left hand unless otherwise specified on orders.

All Wall Radiators for hot water are tapped top and bottom same end left hand, and will be shipped accordingly unless otherwise specified on orders. Wall Radiator sections are tapped 1 1/2 inch left hand and are bushed to sizes required.

Note.—When using union valves or union elbows please state this fact in ordering, so that connections may be tapped right hand.

Heat Generator

FIRST FLOOR—Up to 25 square feet.....	1 1/2	x	1 1/2	inch
From 25 square feet to 60 square feet...	3/4	x	3/4	"
Over 60 square feet.....	1	x1		"

SECOND FLOOR—Up to 30 square feet.....	1 1/2	x	1 1/2	inch
From 30 square feet to 100 square feet...	3/4	x	3/4	"
Over 100 square feet.....	1	x1		"

THIRD FLOOR—Up to 50 square feet.....	1 1/2	x	1 1/2	inch
From 50 square feet to 125 square feet...	3/4	x	3/4	"
Over 125 square feet.....	1	x1		"

Tappings for Safford Radiators

Standard Tappings—Steam Radiators

All Safford Steam Radiators will be tapped as per schedule below. If any special tapplings are desired they should be plainly stated on orders.

One Pipe Steam Radiators, Direct and Direct-Indirect:—

25 square feet and under.....	1	inch.
Above 25 square feet but not exceeding 60 square feet	$1\frac{1}{4}$	"
Above 60 square feet but not exceeding 100 square feet	$1\frac{1}{2}$	"
Above 100 square feet.....	2	"

All one pipe steam connections are tapped left hand with eccentric tapplings.

Two Pipe Steam Radiators, Direct and Direct-Indirect:—

50 square feet and under.....	1	x $\frac{3}{4}$ inch.
Above 50 square feet but not exceeding 95 square feet	$1\frac{1}{4}$ x1	"
Above 95 square feet.....	$1\frac{1}{2}$ x1 $\frac{1}{4}$	"

All two pipe steam connections are tapped right hand. The tapping on return end of radiator being made eccentric.

Two Pipe Steam Radiators, Indirect only:—

40 square feet and under.....	1	x $\frac{3}{4}$ inch
Above 40 square feet but not exceeding 80 square feet.....	$1\frac{1}{4}$ x1	"
Above 80 square feet but not exceeding 120 square feet.....	$1\frac{1}{2}$ x1 $\frac{1}{4}$	"
Above 120 square feet.....	2	x1 $\frac{1}{2}$ "

Steam Indirect Radiators are always tapped for two pipe system.

Note:—When using union valves or union elbows please state this fact in ordering so that connections may be tapped right hand.

Tappings for Safford Radiators

For Special Steam Systems

DUNHAM VACUO-VAPOR SYSTEM

Radiator Tappings, Dunham Vapor and Vacuum systems using Hot Water radiation with top inlet and bottom outlet opposite end.

Square Feet Radiation	Inlet	Outlet
1 to 40.....	$\frac{1}{2}$ inch	$\frac{1}{2}$ inch
41 to 100.....	$\frac{3}{4}$ "	$\frac{1}{2}$ "
101 to 180.....	1 "	$\frac{1}{2}$ "

Tappings right or left as specified.

DUNHAM VACUUM SYSTEM

Radiator Tappings, Dunham Vacuum System, using Steam Radiation, Bottom Connection, opposite ends.

Square Feet Radiation	Inlet	Outlet
1 to 25.....	$\frac{1}{2}$ inch	$\frac{1}{2}$ inch
26 to 80.....	$\frac{3}{4}$ "	$\frac{1}{2}$ "
81 to 150.....	1 "	$\frac{1}{2}$ "
151 to 250.....	$1\frac{1}{4}$ "	$\frac{1}{2}$ "
251 to 350.....	$1\frac{1}{2}$ "	$\frac{1}{2}$ "

Tappings right or left as specified.

Tappings for Safford Radiators

For Special Steam Systems

Webster Modulation System

(Hot Water Type Radiator only used)

Direct Radiators Supply End	
Up to 50 sq. ft.....	$\frac{3}{4}$ "
Up to 100 sq. ft.....	1"
Up to 180 sq. ft.....	$1\frac{1}{4}$ "
Up to 225 sq. ft.....	$1\frac{1}{2}$ "
Returns	
Up to 100 sq. ft.....	$\frac{1}{2}$ "
Up to 225 sq. ft.....	$\frac{3}{4}$ "

Direct-Indirect Radiators Supply End	
Up to 16 sq. ft.....	$\frac{1}{2}$ "
Up to 48 sq. ft.....	$\frac{3}{4}$ "
Up to 75 sq. ft.....	1"
Up to 144 sq. ft.....	$1\frac{1}{4}$ "
Up to 180 sq. ft.....	$1\frac{1}{2}$ "
Returns	
Up to 50 sq. ft.....	$\frac{1}{2}$ "
Up to 100 sq. ft.....	$\frac{3}{4}$ "
Up to 225 sq. ft.....	1"

All tappings are Right Hand. Flows at top and returns at bottom opposite end. Returns tapped eccentric. No air vent tapping.

Webster Vacuum System (Steam Type Radiators)

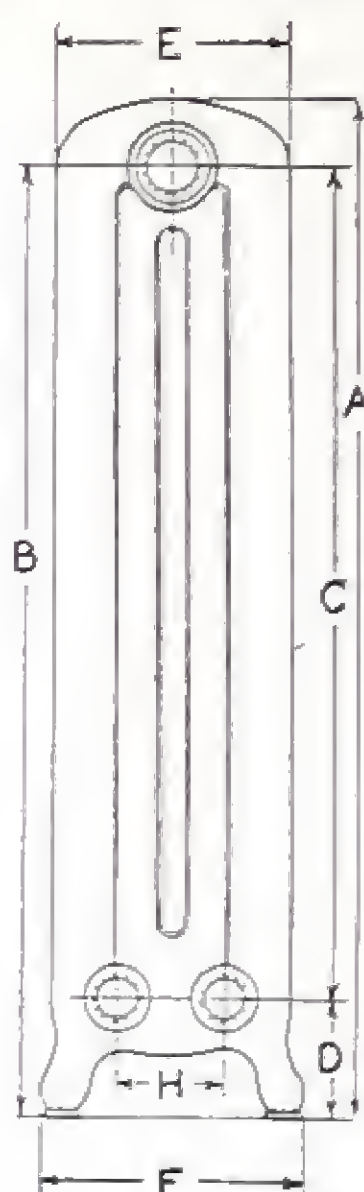
Heating Surface	Inlet	Outlet
35 sq. ft.....and under.....	$\frac{1}{2}$ "	$\frac{1}{2}$ "
36 sq. ft..... to 80 sq. ft....	$\frac{3}{4}$ "	$\frac{1}{2}$ "
81 sq. ft..... to 150 sq. ft....	1"	$\frac{1}{2}$ "
151 sq. ft..... to 300 sq. ft....	$1\frac{1}{4}$ "	$\frac{3}{4}$ "
301 sq. ft..... to 450 sq. ft....	$1\frac{1}{2}$ "	$\frac{3}{4}$ "

All returns tapped Right Hand eccentric. No air vent tapping (if tapped to be plugged). Flows tapped right or left hand thread as specified.

Safford Radiators

Measurements of
Radiators.

See also page 119



Name	Catalog Height	A	B	C	D	E	F	G	H	I	Heating Surface Sq. Ft.
One Column	38	$38\frac{5}{16}$	$36\frac{7}{16}$	$31\frac{15}{16}$	$4\frac{1}{2}$	$4\frac{3}{16}$	$5\frac{1}{4}$	$2\frac{1}{2}$	$3\frac{1}{4}$	4	3
★SAXON	32	$32\frac{15}{32}$	$30\frac{1}{2}$	$25\frac{15}{16}$	$4\frac{1}{2}$	$4\frac{3}{16}$	$5\frac{1}{4}$	$2\frac{1}{2}$	$3\frac{1}{4}$	4	$2\frac{1}{2}$
★VICTORIA	26	$26\frac{1}{2}$	$24\frac{9}{16}$	$20\frac{1}{16}$	$4\frac{1}{2}$	$4\frac{3}{16}$	$5\frac{1}{4}$	$2\frac{1}{2}$	$3\frac{1}{4}$	4	2
and	23	$23\frac{1}{32}$	$21\frac{3}{32}$	$16\frac{19}{32}$	$4\frac{1}{2}$	$4\frac{3}{16}$	$5\frac{1}{4}$	$2\frac{1}{2}$	$3\frac{1}{4}$	4	$1\frac{2}{3}$
REGINA	20	$20\frac{3}{16}$	$18\frac{9}{32}$	$13\frac{49}{64}$	$4\frac{1}{2}$	$4\frac{3}{16}$	$5\frac{1}{4}$	$2\frac{1}{2}$	$3\frac{1}{4}$	4	$1\frac{1}{2}$
Two Column	45	$44\frac{15}{16}$	$43\frac{1}{32}$	$39\frac{3}{16}$	4	$7\frac{3}{8}$	$8\frac{1}{4}$	$2\frac{1}{2}$	$3\frac{1}{4}$	$3\frac{1}{2}$	5
★SAXON	38	$38\frac{13}{32}$	$36\frac{2}{16}$	$32\frac{5}{8}$	4	$7\frac{3}{8}$	$8\frac{1}{4}$	$2\frac{1}{2}$	$3\frac{1}{4}$	$3\frac{1}{2}$	4
★VICTORIA	32	$32\frac{15}{32}$	$30\frac{5}{8}$	$26\frac{5}{8}$	4	$7\frac{3}{8}$	$8\frac{1}{4}$	$2\frac{1}{2}$	$3\frac{1}{4}$	$3\frac{1}{2}$	$3\frac{1}{2}$
and	30	$30\frac{1}{32}$	$28\frac{5}{32}$	$24\frac{7}{32}$	4	$7\frac{3}{8}$	$8\frac{1}{4}$	$2\frac{1}{2}$	$3\frac{1}{4}$	$3\frac{1}{2}$	3
REGINA	26	$26\frac{9}{16}$	$24\frac{21}{32}$	$20\frac{43}{64}$	4	$7\frac{3}{8}$	$8\frac{1}{4}$	$2\frac{1}{2}$	$3\frac{1}{4}$	$3\frac{1}{2}$	$2\frac{2}{3}$
	23	$23\frac{1}{32}$	$21\frac{5}{32}$	$17\frac{13}{64}$	4	$7\frac{3}{8}$	$8\frac{1}{4}$	$2\frac{1}{2}$	$3\frac{1}{4}$	$3\frac{1}{2}$	$2\frac{1}{3}$
	20	$20\frac{3}{32}$	$18\frac{5}{32}$	$14\frac{13}{64}$	4	$7\frac{3}{8}$	$8\frac{1}{4}$	$2\frac{1}{2}$	$3\frac{1}{4}$	$3\frac{1}{2}$	2
Three Colu'n	44	$43\frac{13}{16}$	$41\frac{1}{8}$	$36\frac{23}{32}$	$4\frac{1}{2}$	9	$9\frac{1}{4}$	$2\frac{1}{2}$	$3\frac{1}{4}$	4	6
★SAXON	38	$38\frac{13}{32}$	$35\frac{11}{16}$	$31\frac{1}{4}$	$4\frac{1}{2}$	9	$9\frac{1}{4}$	$2\frac{1}{2}$	$3\frac{1}{4}$	4	5
★VICTORIA	32	$32\frac{15}{32}$	$29\frac{27}{32}$	$25\frac{7}{16}$	$4\frac{1}{2}$	9	$9\frac{1}{4}$	$2\frac{1}{2}$	$3\frac{1}{4}$	4	$4\frac{1}{2}$
and	26	$26\frac{11}{16}$	$23\frac{15}{16}$	$19\frac{9}{16}$	$4\frac{1}{2}$	9	$9\frac{1}{4}$	$2\frac{1}{2}$	$3\frac{1}{4}$	4	$3\frac{3}{4}$
REGINA	22	$22\frac{19}{32}$	$19\frac{7}{8}$	$15\frac{17}{32}$	$4\frac{1}{2}$	9	$9\frac{1}{4}$	$2\frac{1}{2}$	$3\frac{1}{4}$	4	3
	18	$18\frac{21}{32}$	$15\frac{29}{32}$	$11\frac{1}{2}$	$4\frac{1}{2}$	9	$9\frac{1}{4}$	$2\frac{1}{2}$	$3\frac{1}{4}$	4	$2\frac{1}{4}$
Four Column	45	46	$43\frac{13}{16}$	$39\frac{5}{16}$	$4\frac{1}{2}$	$11\frac{1}{2}$	$11\frac{3}{4}$	3	$3\frac{1}{4}$		10
★SAXON	38	$38\frac{1}{2}$	$36\frac{1}{2}$	32	$4\frac{1}{2}$	$11\frac{1}{2}$	$11\frac{3}{4}$	3	$3\frac{1}{4}$		8
★VICTORIA	32	$32\frac{1}{2}$	$30\frac{1}{2}$	26	$4\frac{1}{2}$	$11\frac{1}{2}$	$11\frac{3}{4}$	3	$3\frac{1}{4}$		$6\frac{1}{2}$
and	26	$26\frac{1}{2}$	$24\frac{1}{2}$	20	$4\frac{1}{2}$	$11\frac{1}{2}$	$11\frac{3}{4}$	3	$3\frac{1}{4}$		5
REGINA	22	$22\frac{1}{2}$	$20\frac{1}{2}$	16	$4\frac{1}{2}$	$11\frac{1}{2}$	$11\frac{3}{4}$	3	$3\frac{1}{4}$		4
	20	$20\frac{1}{2}$	$18\frac{1}{2}$	14	$4\frac{1}{2}$	$11\frac{1}{2}$	$11\frac{3}{4}$	3	$3\frac{1}{4}$		$3\frac{1}{2}$
	18	$18\frac{1}{2}$	$16\frac{1}{2}$	12	$4\frac{1}{2}$	$11\frac{1}{2}$	$11\frac{3}{4}$	3	$3\frac{1}{4}$		3

Additional Twin Connection Measurements

Distance from center of tapping to nearest outside edge of legs:

Regina 1-Column $1\frac{1}{4}$ "

Regina 2-Column $2\frac{1}{2}$ "

Regina 3-Column 3"

Regina 4-Column $4\frac{1}{4}$ "

Acme 5-Column $4\frac{7}{16}$ "

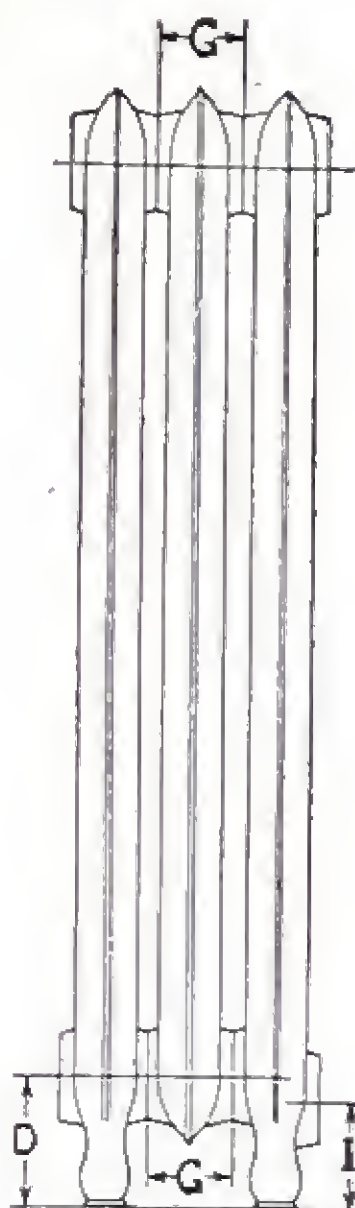
Regina 6-column $4\frac{7}{16}$ "

Note.—Items marked ★ no longer manufactured or carried in stock, but repairs can be furnished.

Safford Radiators

Measurements of
Radiators.

See also page 118.

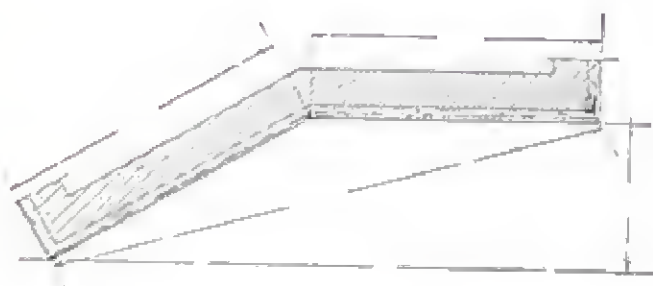


Name	Catalogue Height	A	B	C	D	E	F	G	H	I	Heating Surface Sq. Ft.
Four Column ★DAISY and ★FAVORITE	42	42 $\frac{7}{8}$	40 $\frac{7}{8}$	36 $\frac{1}{2}$	4	8 $\frac{9}{32}$	8 $\frac{1}{2}$	4 $\frac{1}{8}$	3 $\frac{1}{4}$		9 $\frac{2}{3}$
	38	38 $\frac{23}{64}$	36 $\frac{13}{64}$	32 $\frac{1}{4}$	4	8 $\frac{9}{32}$	8 $\frac{1}{2}$	4 $\frac{1}{8}$	3 $\frac{1}{4}$		8
	32	32 $\frac{13}{32}$	30 $\frac{5}{16}$	26 $\frac{9}{32}$	4	8 $\frac{9}{32}$	8 $\frac{1}{2}$	4 $\frac{1}{8}$	3 $\frac{1}{4}$		6 $\frac{2}{3}$
	26	26 $\frac{11}{16}$	24 $\frac{3}{8}$	20 $\frac{1}{16}$	4	8 $\frac{9}{32}$	8 $\frac{1}{2}$	4 $\frac{1}{8}$	3 $\frac{1}{4}$		5 $\frac{1}{3}$
	20	20 $\frac{23}{32}$	18 $\frac{13}{32}$	14 $\frac{1}{16}$	4	8 $\frac{9}{32}$	8 $\frac{1}{2}$	4 $\frac{1}{8}$	3 $\frac{1}{4}$		4
	16	16 $\frac{3}{8}$	14 $\frac{13}{64}$	10 $\frac{5}{16}$	4	8 $\frac{9}{32}$	8 $\frac{1}{2}$	4 $\frac{1}{8}$	3 $\frac{1}{4}$		2 $\frac{1}{2}$
★IDEAL FLUE	42	42 $\frac{25}{32}$	40 $\frac{15}{32}$	34 $\frac{37}{64}$	5 $\frac{7}{8}$	8 $\frac{21}{32}$	8 $\frac{21}{32}$	3	3 $\frac{1}{4}$	5 $\frac{3}{8}$	8 $\frac{1}{4}$
	38	38 $\frac{23}{64}$	36 $\frac{7}{16}$	30 $\frac{31}{64}$	5 $\frac{7}{8}$	8 $\frac{21}{32}$	8 $\frac{21}{32}$	3	3 $\frac{1}{4}$	5 $\frac{3}{8}$	7
	32	32 $\frac{11}{16}$	30 $\frac{23}{64}$	24 $\frac{61}{64}$	5 $\frac{7}{8}$	8 $\frac{21}{32}$	8 $\frac{21}{32}$	3	3 $\frac{1}{4}$	5 $\frac{3}{8}$	5 $\frac{3}{4}$
	26	26 $\frac{25}{64}$	24 $\frac{23}{64}$	18 $\frac{21}{32}$	5 $\frac{7}{8}$	8 $\frac{21}{32}$	8 $\frac{21}{32}$	3	3 $\frac{1}{4}$	5 $\frac{3}{8}$	4 $\frac{1}{2}$
	20	20 $\frac{11}{16}$	18 $\frac{11}{16}$	12 $\frac{41}{64}$	5 $\frac{7}{8}$	8 $\frac{21}{32}$	8 $\frac{21}{32}$	3	3 $\frac{1}{4}$	5 $\frac{3}{8}$	3 $\frac{1}{4}$
Two Column ★FAVORITE and ★DAISY	38	38 $\frac{7}{16}$	36 $\frac{13}{32}$	32 $\frac{29}{32}$	3 $\frac{3}{4}$	5	6 $\frac{1}{2}$	3 $\frac{1}{2}$	3 $\frac{1}{4}$	3 $\frac{1}{4}$	4
	32	32 $\frac{9}{16}$	30 $\frac{5}{16}$	27 $\frac{1}{8}$	3 $\frac{3}{4}$	5	6 $\frac{1}{2}$	3 $\frac{1}{2}$	3 $\frac{1}{4}$	3 $\frac{1}{4}$	3 $\frac{1}{3}$
	26	26 $\frac{1}{4}$	24 $\frac{3}{8}$	20 $\frac{9}{16}$	3 $\frac{3}{4}$	5	6 $\frac{1}{2}$	3 $\frac{1}{2}$	3 $\frac{1}{4}$	3 $\frac{1}{4}$	2 $\frac{2}{3}$
	20	20 $\frac{1}{4}$	18 $\frac{3}{8}$	14 $\frac{1}{16}$	3 $\frac{3}{4}$	5	6 $\frac{1}{2}$	3 $\frac{1}{2}$	3 $\frac{1}{4}$	3 $\frac{1}{4}$	2
	16	15 $\frac{29}{32}$	14 $\frac{1}{32}$	10 $\frac{5}{16}$	3 $\frac{3}{4}$	5	6 $\frac{1}{2}$	3 $\frac{1}{2}$	3 $\frac{1}{4}$	3 $\frac{1}{4}$	1 $\frac{1}{2}$
Five Column ACME	20	19 $\frac{63}{64}$	18 $\frac{7}{32}$	15 $\frac{15}{64}$	3	12 $\frac{3}{4}$	12 $\frac{3}{4}$	3	3 $\frac{1}{4}$		6
	18	18 $\frac{5}{32}$	16 $\frac{11}{32}$	13 $\frac{13}{32}$	3	12 $\frac{3}{4}$	12 $\frac{3}{4}$	3	3 $\frac{1}{4}$		5 $\frac{1}{3}$
	16	16 $\frac{9}{64}$	14 $\frac{11}{32}$	11 $\frac{3}{8}$	3	12 $\frac{3}{4}$	12 $\frac{3}{4}$	3	3 $\frac{1}{4}$		4 $\frac{2}{3}$
	14	14 $\frac{15}{64}$	12 $\frac{13}{32}$	9 $\frac{23}{64}$	3	12 $\frac{3}{4}$	12 $\frac{3}{4}$	3	3 $\frac{1}{4}$		4
	13	13 $\frac{3}{32}$	11 $\frac{1}{64}$	8 $\frac{3}{8}$	3	12 $\frac{3}{4}$	12 $\frac{3}{4}$	3	3 $\frac{1}{4}$		3 $\frac{2}{3}$
Six Column REGINA	20	19 $\frac{47}{64}$	17 $\frac{11}{16}$	14 $\frac{7}{64}$	3 $\frac{5}{8}$	12 $\frac{1}{8}$	12 $\frac{1}{8}$	3	3 $\frac{1}{4}$		5
	18	17 $\frac{25}{32}$	15 $\frac{49}{64}$	12 $\frac{1}{8}$	3 $\frac{5}{8}$	12 $\frac{1}{8}$	12 $\frac{1}{8}$	3	3 $\frac{1}{4}$		4 $\frac{1}{4}$
	16	15 $\frac{3}{4}$	13 $\frac{3}{4}$	10 $\frac{1}{8}$	3 $\frac{5}{8}$	12 $\frac{1}{8}$	12 $\frac{1}{8}$	3	3 $\frac{1}{4}$		3 $\frac{3}{4}$
	13	13 $\frac{1}{8}$	10 $\frac{3}{4}$	8 $\frac{1}{8}$	3	12 $\frac{1}{8}$	12 $\frac{1}{8}$	3	3 $\frac{1}{4}$		3

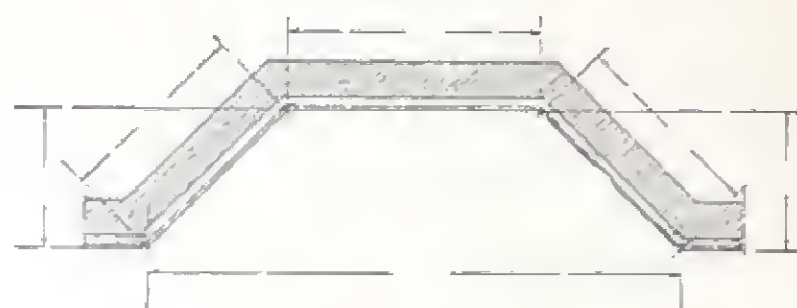
Note.—Items marked ★ no longer manufactured or carried in stock, but repairs can be furnished.

Curved, Corner, Angle and Circular Radiators

Cast Special to Order

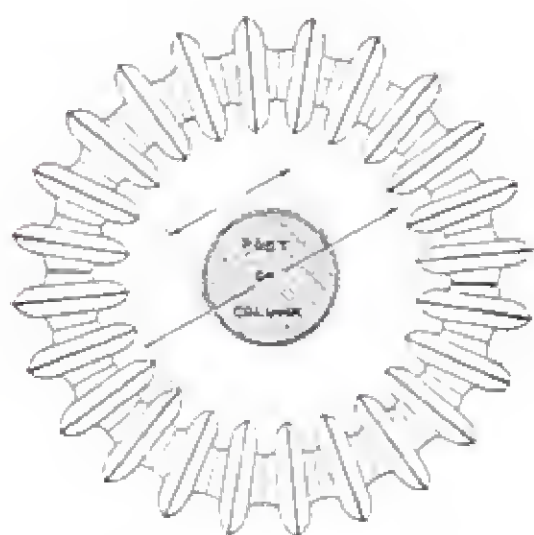


One Angle



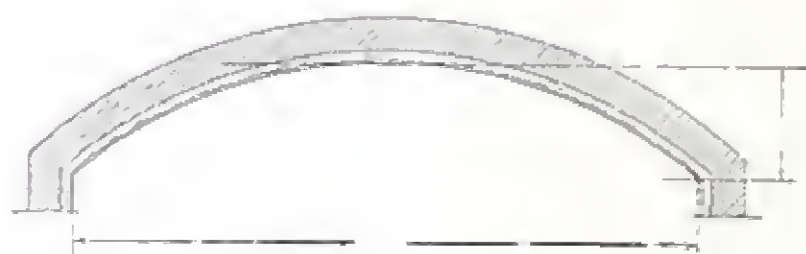
Two Angles

Regina—1- 2- 3- and 4-Column in all heights. Regina window all heights.



Circular

Regina 1- 2- 3- and 4-Column all heights. Regina window all heights.



Curved

All heights in Regina 1- 2- 3- and 4-Column and Regina window all heights.

It is necessary that a wooden or heavy paper template should accompany orders, giving the measurements along dimension lines.

In furnishing template please state whether measurements have been taken from the plastered wall, or whether allowance has been made for baseboard and shoe. Template should show distinctly on which end the supply leg is to be placed. State whether single or twin connection tappings are desired.

Special Note.—In ordering state whether templates are to be completely filled up with sections or otherwise. Show extreme points between which Radiator may be placed.

Extra High Solid Legs

Not Carried in Stock

Cast Special to Order

The types of Radiators for which High Legs are furnished are as follows:

High Legs measuring six inches only can be furnished on the following types and for which no additional charge is made: Corto Radiators—Peerless Two-, Three-, and Four-Column in all heights of Radiators except 45 inch.

Regina Pattern, One-, Two-, Three- and Four-Column, and Saxon Hospital Two-, Three-, and Four-Column in all heights can be furnished in six, six and one-half, seven, seven and one-half and eight-inch High Legs and Stork Legs. No extra charge for six-inch Legs. For additional charge on other heights and Stork Legs, see current Radiator Discount Sheet.

Ideal and Safford Sectional Boilers

Arrangement of Grate Bars and Connecting Arms

Boiler No.	Left-Hand Grate Bars	Right-Hand Grate Bars	Size Right- Hand Front Half Connect- ing Arm	Boiler No.	Left-Hand Grate Bars	Right-Hand Grate Bars	Size Right- Hand Front Half Connect- ing Arm
S- or W-19-5	4	.....	.....	S- or W-28-7	3	3	Medium
S- or W-19-6	5	.....	.....	S- or W-28-8	4	3	Long
S- or W-19-7	6	.....	.....	S- or W-36-5	2	2	Short
S- or W-22-5	2	2	.....	S- or W-36-6	3	2	Medium
S- or W-22-6	3	2	.....	S- or W-36-7	3	3	"
S- or W-22-7	3	3	Medium	S- or W-36-8	4	3	Long
S- or W-25-5	2	2	.....	S- or W-36-9	4	4	"
S- or W-25-6	3	2	Medium	S- or W-4806	3	2	Short
S- or W-25-7	3	3	"	S- or W-4807	3	3	"
S- or W-25-8	4	3	Long	S- or W-4808	4	3	Medium
S- or W-28-5	2	2	.....	S- or W-4809	4	3	"
S- or W-28-6	3	2	Medium	S- or W-4810	4	4	Medium

Radiator Pedestals



As shown in illustration, are made in varying heights and are designed to fit under the legs of all styles and heights of any of our radiators.

Height, inches...	$\frac{1}{2}$	1	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5
List Price.....	.10	.10	.14	.20	.20	.24	.24	.30	.30	.35

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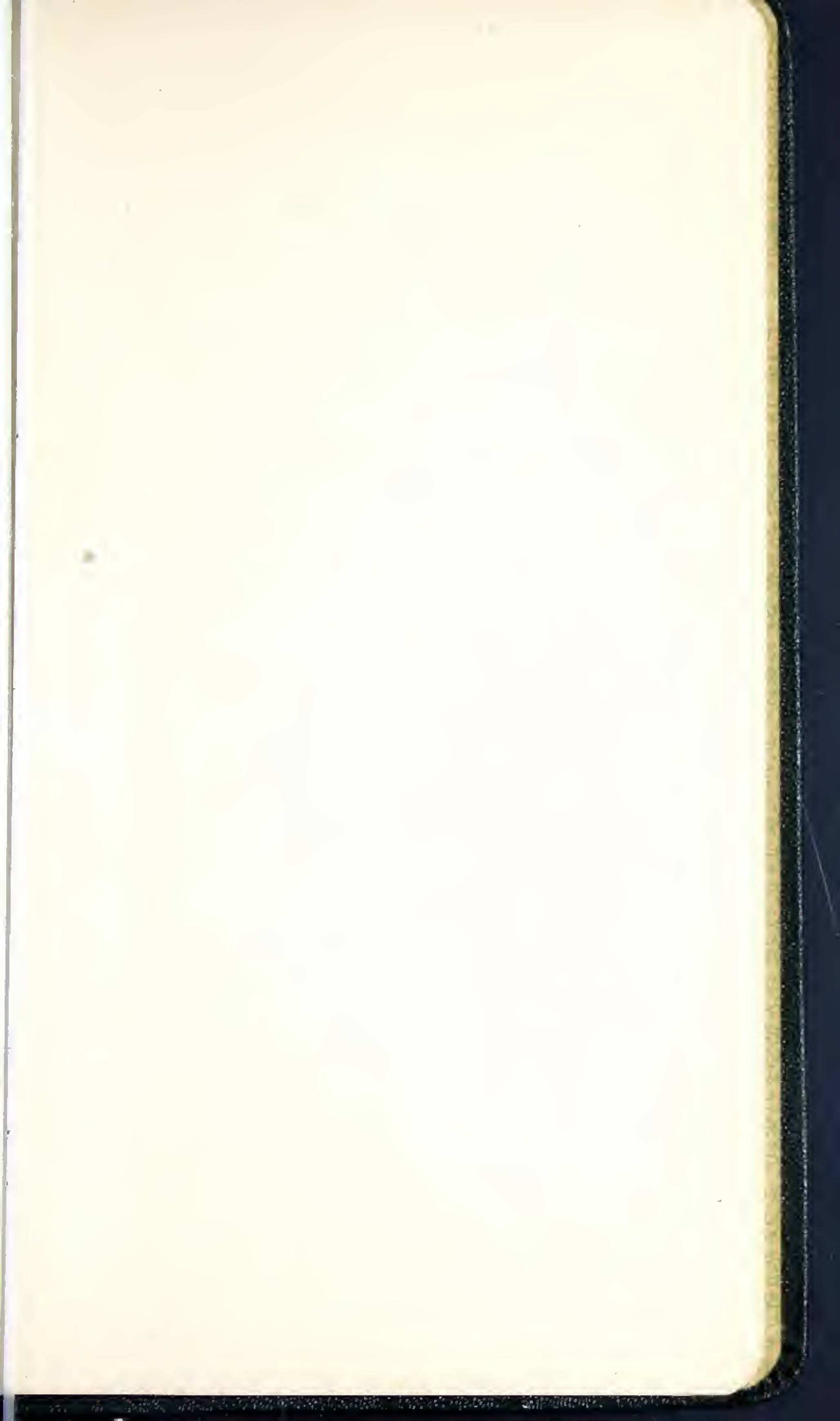
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